



APG NEWS

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www.TeamAPG.com

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Vol. 60, No. 3

Senior leaders to focus on Net Zero energy awareness

By **STACY SMITH**
APG News

On Jan. 29 the Directorate of Public Works' Energy Management Specialist Dev-



on Rock will meet with APG senior leaders to discuss the status of the installation's Net Zero energy program with the goal of developing further strategies to reduce energy consumption.

Rock said that although APG saves some energy through programs like the combined heat and power plant on APG South (Edgewood), more effort is needed to find renewable resources that meet the installation's power needs, which will ultimately reduce spending and champion environmental stewardship.

"Aberdeen Proving Ground, by itself, spent more than \$50 million in utility costs just last fiscal year," Rock said. "That \$50 million for water, propane, fuel oil, natural gas, [and] electricity-

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DESIGNS

CERDEC designs streamline fielding of cutting-edge technologies.

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From left, Command Sgt. Maj. Jeffrey O. Adams, Pfc. Rahkeem Turner, Alpha Battery, 3rd Air Defense Artillery, APG Senior Commander Maj. Gen. Bruce T. Crawford and APG Garrison Commander Col. James E. Davis cut the cake that was served to guests at the end of the Dr. Martin Luther King Jr. Day observance at the Myer Auditorium Jan. 13.

Photo by Sean Kief

Remembering legacy of MLK

APG ceremony observes Dr. Martin Luther King Jr. Day

By **RACHEL PONDER**
APG News

The APG community celebrated the life and legacy of Dr. Martin Luther King Jr. during the annual observance at the Myer Auditorium Jan. 13. The APG Garrison sponsored the event.

During opening remarks, APG Garrison Commander Col. James E. Davis noted that

while King is largely remembered for the "I Have a Dream" speech and the "Letter From Birmingham Jail," he wrote five books and delivered 450 speeches a year. Davis encouraged listeners to remember all that King stood for, and to not define him by just one speech and one letter.

"Remember not just that Dr. King had a dream, but he also had a challenge to Amer-

icans," Davis said. "Dr. King dedicated his life to improve the world from which he lived, regardless of skin color, religious preference and economic status. He challenged us all to do the same."

APG Senior Commander and commander of the U.S. Army Communications-Elec-

See **OBSERVANCE**, page 17

Ground-breaking Soldiers, vets attend State of Union

By **C. TODD LOPEZ** and **TIM HUDAK**,
U.S. Department of Veterans Affairs

Maj. Lisa Jaster, an Army Reserve officer and the third woman to graduate the Army's elite Ranger School, was among 23 guests invited to sit with First Lady Michelle Obama during the State of the Union address, Jan. 12.

"Hopefully I can be cool," Jaster said before the speech. "I think it's a huge honor. And I look forward to it."

Normally 24 guests sit with the first lady. However, during President Barack Obama's last State of the Union, there were only 23. Like the Army often does during a formal banquet, where a seat at the table is left empty to represent Soldiers who have been killed in action, the first lady left a seat to her left empty, to represent civilians who have been killed through gun violence.

'Born to be a Ranger'

In October 2015, Jaster, an engineering officer and graduate of the U.S. Military Academy at West Point, New York, became the third female Soldier to graduate Ranger School. It's an accomplishment she said she's been preparing for most of her life, even before

See **FIRST**, page 17



Photo by U.S. Army Reserve

Maj. Lisa Jaster, an Army Reserve soldier, performs a fireman's carry on a simulated casualty during the Ranger Course on Ft. Benning, Georgia. The 37-year-old engineer and mother of two children is the first female Army Reserve officer to graduate the grueling combat leadership course. Jaster attended the State of the Union address, Jan. 12, 2016, as a guest of First Lady Michelle Obama.

Malicious coders will lose anonymity as research matures



Courtesy graphic

U.S. Army Research Laboratory network security and academic researchers are in search of a tool kit that may one day help analysts to identify malware authors more quickly.

By **JOYCE P. BRAYBOY**
ARL

Literature critics may know a writer by his style, in the same way a chunk of computer code is identified through a machine learning algorithm according to its writer's nuances.

Writing style extends beyond prose, so that even in computer languages you could attribute work to its author in minutes with near perfect accuracy - in a lab.

That is what a team of university students tested during their time at the U.S. Army Research Laboratory (ARL), said Richard Harang, ARL network security researcher and technical lead.

"A tool kit that may one day help analysts to identify malware authors more quickly."

The code stylometry study that was presented by Aylin Caliskan-Islam at

See **RESEARCH**, page 18

STREET TALK

Do you prefer
Android
or
iPhone?

"iPhone, because everything I have is Apple, and once I walk into my house, everything is connected."



Maj. Walter Zurkowsky
ACC

"I use an Android, and I'm satisfied with it. At the time the Android was cheaper, and my daughter recommended I get it."



Bernard Wilder
LRC

"Android, because the devices are a little bit cheaper than the iPhone devices. The software is more open; Apple is a proprietary and locked down. I'd rather have something that's open-sourced."



Maj. Mustafa Kamalreza
20th CBRNE

"I'm very preferential to Android because you can connect with different things, and the apps seem to roll over between all the different types of phones. If you go the iPhone route, you can only connect with Apple and iPhone products. I love the way my Android can connect with everything I have."



Latoya Miller
ACC

"iPhone, because Android is glitchy."



Travis Heeter
SEC

Stay safe in winter weather

cdc.gov

Serious health problems can result from prolonged exposure to the cold. The most common cold-related problems are hypothermia and frostbite.

Hypothermia

- When exposed to cold temperatures, your body begins to lose heat faster than it can be produced.
- Low body temperature may make you unable to think clearly or move well.
- You may not know you have hypothermia.
- If your temperature is below 95°, the situation is an emergency—get medical attention immediately.

When exposed to cold temperatures, your body begins to lose heat faster than it can be produced. Prolonged exposure to cold will eventually use up your body's stored energy. The result is hypothermia, or abnormally low body temperature. Body temperature that is too low affects the brain, making the victim unable to think clearly or move well. This makes hypothermia particularly dangerous because a person may not know it is happening and won't be able to do anything about it.

Hypothermia is most likely at very cold temperatures, but it can occur even at cool temperatures (above 40°F) if a person becomes chilled from rain, sweat, or submersion in cold water.

Victims of hypothermia are often (1) elderly people with inadequate food, clothing, or heating; (2) babies sleeping in cold bedrooms; (3) people who remain outdoors for long periods—the homeless, hikers, hunters, etc.; and (4) people who drink alcohol or use illicit drugs.

Recognizing Hypothermia

Warnings signs of hypothermia:

Adults:

- shivering, exhaustion
- confusion, fumbling hands
- memory loss, slurred speech
- drowsiness

Infants:

- bright red, cold skin
- very low energy

What to Do

If you notice any of these signs, take the person's temperature. If it is below 95°, the situation is an emergency—get medical attention immediately.

If medical care is not available, begin warming the person, as follows:

- Get the victim into a warm room or shelter.
- If the victim has on any wet clothing, remove it.
- Warm the center of the body first—chest, neck, head, and groin—using an electric blanket, if available. Or use skin-to-skin contact under loose, dry layers of



Courtesy photo

blankets, clothing, towels, or sheets.

- Warm beverages can help increase the body temperature, but do not give alcoholic beverages. Do not try to give beverages to an unconscious person.
- After body temperature has increased, keep the person dry and wrapped in a warm blanket, including the head and neck.
- Get medical attention as soon as possible.

A person with severe hypothermia may be unconscious and may not seem to have a pulse or to be breathing. In this case, handle the victim gently, and get emergency assistance immediately. Even if the victim appears dead, CPR should be provided. CPR should continue while the victim is being warmed, until the victim responds or medical aid becomes available. In some cases, hypothermia victims who appear to be dead can be successfully resuscitated.

Frostbite

- Frostbite is an injury to the body that is caused by freezing.
- Frostbite causes a loss of feeling and color in the nose, ears, cheeks, chin, fingers, or toes.
- Seek medical care if you think you have frostbite.

Frostbite can permanently damage the body, and severe cases can lead to amputation. The risk of frostbite is increased in people with reduced blood circulation and among people who are not dressed properly for extremely cold temperatures.

Recognizing Frostbite

At the first signs of redness or pain in

any skin area, get out of the cold or protect any exposed skin—frostbite may be beginning. Any of the following signs may indicate frostbite:

- a white or grayish-yellow skin area
- skin that feels unusually firm or waxy
- numbness

A victim is often unaware of frostbite until someone else points it out because the frozen tissues are numb.

What to Do

If you detect symptoms of frostbite, seek medical care. Because frostbite and hypothermia both result from exposure, first determine whether the victim also shows signs of hypothermia, as described previously. Hypothermia is a more serious medical condition and requires emergency medical assistance.

If (1) there is frostbite but no sign of hypothermia and (2) immediate medical care is not available, proceed as follows:

- Get into a warm room as soon as possible.
- Unless absolutely necessary, do not walk on frostbitten feet or toes—this increases the damage.
- Immerse the affected area in warm—not hot—water (the temperature should be comfortable to the touch for unaffected parts of the body).
- Or, warm the affected area using body heat. For example, the heat of an armpit can be used to warm frostbitten fingers.
- Do not rub the frostbitten area with snow or massage it at all. This can cause more damage.
- Don't use a heating pad, heat lamp, or the heat of a stove, fireplace, or radiator for warming. Affected areas are numb and can be easily burned.

These procedures are not substitutes for proper medical care. Hypothermia is a medical emergency and frostbite should be evaluated by a health care provider. It is a good idea to take a first aid and emergency resuscitation (CPR) course to prepare for cold-weather health problems. Knowing what to do is an important part of protecting your health and the health of others.

Taking preventive action is your best defense against having to deal with extreme cold-weather conditions. By preparing your home and car in advance for winter emergencies, and by observing safety precautions during times of extremely cold weather, you can reduce the risk of weather-related health problems.

For more information, about these and other emergency preparedness and response issues, visit the Centers for Disease, Control and Prevention website at <http://emergency.cdc.gov/disasters/winter/guide.asp>.

Leave Donations

To participate in the Voluntary Leave Program, use forms OPM 630, Application to Become a Leave Recipient Under the Voluntary Leave Transfer Program; OPF 630-A, Request to Donate Annual Leave to Leave Recipient Under the Voluntary Leave Transfer Program (within agency); or OPM 630- B, Request to Donate Annual Leave to Leave Recipient Under the Voluntary Leave Transfer Program (outside agency). Please contact Sue Campbell at 410-306-0266 or sue.a.campbell8.civ@mail.mil

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See Something

Cut along dotted lines
and fold in middle for use
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Say Something

INSTALLATION WATCH CARD

DO OBSERVE
& REPORT

- Suspicious activity or suspected surveillance.
- Unusual questions or requests for information relating to capabilities, limitations, or operational information.
- Unusual vehicles operating in or around APG.
- Unusual phone calls, messages, or e-mails.
- Unusual contacts on or off post.
- Unusual aerial activity near or around installation.
- Any possible compromise of sensitive information.



INSTALLATION WATCH CARD

DON'T

- Discuss any aspect of military operations or planning.
- Discuss military capabilities or limitations.
- Discuss FP measures, capabilities, or posture.
- Disclose information about R&D and testing.

Report suspicious activity immediately to APG Police!



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APG NEWS

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Innovative designs, smart manufacturing partnerships deliver Soldier readiness

By **KATHRYN BAILEY**
CERDEC

Army production and logistics is teaming with Army research and development to better streamline the rapid design and fielding of cutting-edge technologies to the Soldier.

“The Army has called for increased innovation, which is shining a spotlight on prototype designs,” said Christopher Manning, Prototype Integration & Testing Division chief, under the Army’s Communications-Electronics Research, Development and Engineering Center (CERDEC). “However, it is imperative that our designs can be leveraged for mass production and sustainment.”

CERDEC’s Command, Control, Communications, Computers, Intelligence, Surveillance and Reconnaissance, Prototype Integration Facility (C4ISR PIF), designs, tests and builds prototypes using an iterative development process. It is teaming with Tobyhanna Army Depot (TYAD), which is staffed and equipped as the full-rate production and logistics support facility for C4ISR technologies.

Both organizations are subordinate commands under the U.S. Army Materiel Command (AMC). CERDEC is part of the Research, Development and Engineering Command (RDECOM) and TYAD is part of the Communications-Electronics Command (CECOM). AMC provides materiel readiness across the spectrum of joint operations. Its research, development and engineering centers and depots are critical components of the Army’s organic industrial base.

“We think that if we capitalize on the expertise and flexibility of both organizations, we better support the Warfighter,” said Robert Katulka, TYAD director of production engineering. “Our engineers and technicians insert rapid manufacturing expertise, on multiple platforms, into the process to deliver these concepts to the field quicker.”

The two organizations recently teamed to organically provide additional capabilities to the AN/TPQ-50 Lightweight-Counter Mortar Radar, or LCMR, which is a critical Army counterfire radar system that



Photo by Kathryn Bailey, CERDEC

Gene Curran, senior mechanical engineer, demonstrates the operation of the Lightweight Counter Mortar Radar Live-Fire Test Simulator at Tobyhanna Army Depot.

provides 3D, 360-degree warning capability against incoming artillery and mortar fire.

Product Manager, or PdM Radars, contacted the C4ISR PIF team to redesign the LCMR’s cab kit, which houses various C4ISR equipment, so that it could be easily integrated into a High-mobility Multipurpose Wheeled Vehicle, or HMMWV, for on-the-move capability.

“The original kit did not account for all of the LCMR-specific mission equipment and was a safety concern for Soldiers while on the move,” said Mark Miltenberger, C4ISR PIF project lead. “Our redesign-enabled Soldiers to easily mount their SINCGARS [Single Channel Ground and Airborne Radio System] radios, mission command situational awareness capabilities, a laptop, and peripherals onto a HMMWV.”

PdM Radars also required a power distribution box that allowed the radar to be powered directly from the HMMWV while on-the-move or from a generator when parked. C4ISR PIF engineers completed both designs in seven months, then integrated the first set of HMMWVs from top to bottom. Members of the TYAD

team joined the PIF engineers at Aberdeen Proving Ground, Maryland, to cross train on the power box assembly, wiring and testing.

“We completed the redesign to meet customer requirements and then produced a sufficient number of boxes to support the initial fieldings,” Manning said. “That production rate shifted once we transitioned the work to TYAD, but throughout the process, both teams have been working in concert.”

PdM Radars realized additional efficiencies by shifting all full-production integration services to the regional support center in Fort Bragg, North Carolina, and CERDEC C4ISR PIF engineers assisted with this transition by providing training to the engineers at Fort Bragg.

“Building capabilities organically within the Army gives us the flexibility to shift production functions to ensure the best value for the Army,” Miltenberger said. “We all have one common goal, and that is to field new technologies to the Soldiers as quickly and cost effectively as possible.”

The partnership between the two organizations requires more than teamwork; each organization’s equipment must have

compatible components that allow for a smooth transition from prototype to full-rate production.

“Our CAD [computer-aided design] engineering systems are complementary; we run the same software and use the same engineering techniques so that’s powerful,” Katulka said. “It certainly makes it easy for us to exchange technical information back and forth.”

Innovative ideas are not relegated to the C4ISR PIF; engineers at TYAD recently proposed an alternative design for the LCMR power boxes that they believe will expedite the full-rate production process. The original design was a three-piece welded assembly, but now TYAD and C4ISR PIF engineers are collaborating to develop a single piece assembly out of sheet metal, which they believe will be stronger and allow for a quicker full-rate production assembly.

“As we move forward, we believe this partnership will solidify when you have the design entity come up with the ideas and have the production experts in the room so that you are designing for the manufacturability,” said Keith Hoffman, TYAD Systems Integration & Support Operations division chief.

“Each organization provides a unique, necessary core competency to provide the best value for the Army, and in turn, to the taxpayers,” Manning said, adding that leaders within both organizations are currently discussing the most efficient method to field future capabilities and are taking lessons learned from past partnership efforts.

“Our collaboration ultimately delivers innovative solutions to ensure Soldiers retain a competitive military advantage throughout the world,” he said.

The U.S. Army Communications-Electronics Research, Development and Engineering Center (CERDEC) is part of the U.S. Army Research, Development and Engineering Command (RDECOM), which has the mission to ensure decisive overmatch for unified land operations to empower the Army, the joint warfighter and our nation. RDECOM is a major subordinate command of the U.S. Army Materiel Command.

Veterans invited to book club at library

Harford County Public Libraries

In a special collaboration, the Harford County Public Library has joined the Maryland Humanities Council in offering the Veterans Book Group, a unique program giving veterans an opportunity to read thought-provoking writings and share their ideas and service experiences with a group of like-minded people.

Participants in the Veterans Book Group will come together over the course of five sessions to discuss a variety of books and essays with moderator Karen Arnold, former visiting professor at the United States Naval Academy and independent scholar and facilitator.

“It is a wonderful opportunity to share views with a group that has similar experiences, but not always the same perspective on them,” Arnold said. “We had such lively discussions the last time, I had to be a part of the program again.”

The group begins Wednesday, Feb. 17 and will meet at the Bel Air Library for five sessions, 6 to 8pm. Dinner is included as part of the program. Books will be handed out at the meeting prior to the



scheduled discussion. Should one miss a discussion, readings will be available at the circulation desk of the library three weeks before the book’s discussion. Participants should plan to attend all sessions.

Registration is open until March 3 and is limited. To register, go to hcplonline.org or contact the Bel Air Library at 410-638-3151.

The Veterans Book Group is coordinated by the Maryland Humanities Council and funded by the State of Maryland. The program was created by the Maine Humanities Council to promote understanding of the military experience and to support returning veterans. The Veterans Book Group is presented in partnership with Harford County Public Library.

“It is a privilege to be able to partner

with the Maryland Humanities Council on this program again,” said Mary Hasler, CEO of the Harford County Public Library.

“Providing opportunities for veterans and other residents to enrich their lives through the reading and discussion of literature is an important part of what the library does for the community.”

Session Dates and Readings:

- February 17**
- Home by Toni Morrison
- March 9**
- Wandering Souls by Wayne Karlin
 - The Mailbox by Audrey Shafer
 - “Homage to Vietnam” by Pat C. Hoy
- II essay in What So Proudly We Hail: Making American Citizens

- Through Literature, Amy A. Kass, Leon R. Kass, and Diana Schaub, editors
- “The Things She Carried” essay by Cara Hoffman, New York Times opinion pages March 31, 2014

- March 30**
- I’m Still Standing From Captive U.S. Soldier to Free Citizen My Journey Home by Shoshana Johnson with M. L. Doyle
- April 20**
- The Dressmaker of Khair Khana by Gayle Tzemach Lemmon
- May 11**
- Vanished The Sixty Year Search for the Missing Men of World War II by Wil S. Hylton
 - For more information visit the HCPL website at <http://www.hcplonline.org> or call 410-638-3151.



Capt. Dennis Brady Physician assistant

By **RACHEL PONDER**
APG News

Capt. Dennis Brady, a physician assistant for Kirk U.S. Army Health Clinic (KUSAHC), provides primary care to active-duty service members, retirees and their family members.

“I am the first line of care that anybody would see for any ailment,” he said. “Whether they have a cold or a sprained ankle, or something that is

worse, I should be the first person they see to determine if it can be treated here rather than seeing a specialist.”

Brady started working at KUSAHC at the beginning of November. This is his first duty station as a physician assistant.

“I think even back in high school I wanted to be practicing medicine in some capacity,” he said.

Brady said what he likes most about his job is being able to help others.

“I hope I can affect some positive change,” he said. “I like taking care of Soldiers. It’s important that we keep our Soldiers fit, healthy and running on all four cylinders.”

Brady added he is honored to provide care for military family members.

“That is just as important, especially if a Soldier is deployed, they need to know that their family is well cared for,” he said.

KUSAHC uses the patient-centered medical home model of health care. Under this model, patients receive care from the same team of health care providers. Brady said he appreciates the teamwork at KUSAHC.

“We always have someone to consult with, if we need to,” he said. “And the nurses here are awesome, they are all a huge help.”

Brady has been in the Army for 16 years. Before going into medicine,

he was in combat arms. He served as an enlisted Soldier for 10 years and then attended Officer Candidate School and was commissioned into the Medical Corps. His previous assignments include Fort Myer, Virginia; Fort Bragg, North Carolina and Fort Polk, Louisiana.

He holds bachelor and a master’s degrees in physician assistant studies from the University of Nebraska Medical Center, and has completed the Interservice Physician Assistant Program.

Prior to coming to APG, Brady completed a physician assistant residency at Fort Belvoir Community Hospital, in northern Virginia.

KUSAHC is located at 2501 Oakington Street, APG North (Aberdeen) .

For more information about KUSAHC services call 410-278-5475 or visit <http://kusahc.narmc.amedd.army.mil/SitePages/Home.aspx>.

Prevent car fires with proper maintenance

National Fire Protection Association

According to the National Fire Protection Association, cars can catch fire for many reasons. Mechanical or electrical issues are the most common cause.

If you see smoke or flames, or smell burning rubber or plastic, it is important to respond immediately.

What to do if your car is on fire:

- **Pull over as quickly as possible.** Wait until it is safe to pull over, and be sure to use your signal as you make your way to a safe location off the road, such as the breakdown lane or rest stop.
- **Turn off the engine.** Once you have stopped in a safe location, turn off the engine immediately.
- **Get everyone out of the car.** Never return to a burning car for anything. Your safety is more important than any material belongings.
- **Move at least 100 feet away.** Everyone should be at least 100 feet from the burning car and well away from traffic.
- **Call 911.**

How to prevent a car fire:

- Have your car serviced regularly by a professional. If you spot leaks, your car is not running properly; get it checked. A well-maintained car is less likely to have a fire.
- If you must transport gasoline, transport only a small amount in a certified gas can that is sealed. Keep a window open for ventilation. The gas can should be transported in the trunk.
- Never transport a propane cylinder, like for your grill or barbeque, in the passenger area of the car. Always transport it



Courtesy Photo

in the trunk.

- Do not park a car where flammables, such as tall grass, are touching the catalytic converter.
- Drive safely to avoid an accident.

Know the danger signs of a car prone to catching fire

- Cracked or loose wiring or electrical

problems, including a fuse that blows more than once

- Oil or fluid leaks
- Oil cap not on securely
- Rapid changes in fuel or fluid level, or engine temperature

Most car fluids are flammable. Leaking fluid plus a little heat and electrical sparks are all it takes to start a car fire. Keeping a

vehicle well maintained can diminish your risk for a car fire.

Most car accidents do not result in a fire. If there is no sign of a fire, wait for emergency assistance to help any injured passengers out of the car.

For more information about fire prevention and safety, visit www.nfpa.org or www.usfa.fema.gov.

TRICARE Pharmacy copays change Feb. 1

Army News

Military pharmacies and TRICARE Pharmacy home delivery will remain the lowest cost pharmacy option for TRICARE beneficiaries when some TRICARE pharmacy copays change in 2016. On Feb. 1, 2016, most copays for prescription drugs at home delivery and retail network pharmacies will increase slightly.

The 2016 National Defense Authorization Act, or NDAA, requires TRICARE to change its prescription copays. All drugs at military pharmacies, and generic drugs through home delivery, are still available at no cost to beneficiaries. Copays for brand name drugs through home delivery increase from \$16 to \$20,

for up to a 90-day supply. At retail pharmacies, generic drug copays go from \$8 to \$10, and brand name drug copays go from \$20 to \$24 dollars, for up to a 30-day supply. Copays for non-formulary drugs and for drugs at non-network pharmacies will also change.

Beneficiaries can save up to \$208 in 2016 for each brand name prescription drug they switch from retail pharmacy to home delivery. Home delivery offers safe and convenient delivery of your prescription drugs right to your mailbox.

To see the new TRICARE pharmacy copays, learn more about the TRICARE Pharmacy benefit, or move your prescription to home delivery, visit www.tricare.mil/pharmacy.



Military pharmacies and TRICARE Pharmacy home delivery will remain the lowest cost pharmacy option for TRICARE beneficiaries when some TRICARE pharmacy copays change in 2016. On Feb. 1, 2016, most copays for prescription drugs at home delivery and retail network pharmacies will increase slightly.

2015 marks enormous advances for women

Women’s strides made big news throughout 2015, with graduating from Ranger School, to the appointment of the first African-American female Army surgeon general to Defense Secretary Ash Carter opening up all military occupational specialties, or MOSs, to women. Here are some of the highlights:

All occupations open to women

On Dec. 3, 2015, Defense Secretary Ash Carter announced that beginning in January 2016, all Defense Department positions will be open to women, without exception. For the first time in U.S. military history, as long as they qualify and meet specific standards, the secretary said women will be able to contribute to the mission with no barriers at all in their way. “They’ll be allowed to drive tanks, fire mortars and lead infantry Soldiers into combat,” Carter added. “They’ll be able to serve as Army Rangers and Green Berets, Navy SEALs, Marine Corps infantry, Air Force parajumpers, and everything else that was previously open only to men.”

Even more importantly, he said, the military services will be better able to harness the skills and perspectives that talented women have to offer.

In a memorandum to the secretaries of all military departments and others, Carter directed the military services to open all MOSs to women 30 days from Dec. 3 - a waiting period required by law - and by that date to provide updated implementation plans for integrating women into the positions now open to them.

Carter’s announcement came after the Army had been opening many new positions for women in recent years.

For example, on Feb. 25, 2015, then-Army Secretary John M. McHugh signed Directive 2015-08, opening more than 4,100 positions to women in the U.S. Army Special Operations Command.

About 1,000 positions were opened to women following the 2013 rescinding of the Direct Ground Combat Rule by the defense secretary. This paved the way for women to serve in direct combat roles and in MOSs that were previously open only to males.

Women earn Ranger tabs

For the first time in Army history, two women were among the Soldiers who received the coveted Ranger tab Aug. 21.

The two female Ranger School graduates were 1st Lt. Shaye L. Haver and Capt. Kristen M. Griest, both also graduates of the U.S. Military Academy at West Point, New York.

Army Chief of Staff Gen. Mark A. Milley, who attended the graduation, stated in a statement that Ranger School is the Army’s “most grueling” leadership course. The course no doubt stretched all 96 graduates “to and beyond their physical and emotional limits,” he said.

“I’m proud of everything each of these Rangers has endured and I am confident they will go on to serve our Army and our nation. For those who have made it through this arduous course, you know that there is only one standard: The Ranger standard.”

And then there was another. When Maj. Lisa Jaster graduated from the Ranger course, Oct. 16, she became the third female Soldier to earn the Ranger tab. A lesser known distinction setting Jaster apart was the fact that she is one of several thousand Soldiers, who serve their country under the aus-



Acting Army Secretary Eric Fanning, left, swears in Lt. Gen. Nadja West as the 44th surgeon general of the Army and commanding general of U.S. Army Medical Command, Dec. 11, 2015.

Photo by John Martinez

pices of a specialized component of the Army’s Select Reserve - the Individual Mobilization Augmentee, or IMA, program.

Jaster is a U.S. Military Academy at West Point, New York, graduate and mother of two, married to a Marine Corps Reserve officer. In her civilian career, she is a project manager with Shell Oil Company - specializing in oil-field issues. As a Soldier with MOS, 12A, engineer, she transferred from active duty to IMA status in May 2012.

A surgeon general first

On Dec. 11, 2015, Acting Army Secretary Eric Fanning administered the oath of office to Lt. Gen. Nadja West, making her the Army’s first African-American surgeon general, the Army’s 44th surgeon general and commanding general of U.S. Army Medical Command, or MEDCOM.

West also is the Army’s first female African-American lieutenant general and the highest-ranking woman to graduate from the U.S. Military Academy at West Point, New York.

West most recently served as the Joint Staff surgeon at the Pentagon.

The Army surgeon general provides advice and assistance to the Army secretary and chief of staff on all health care matters pertaining to the U.S. Army and its military health care system.

Woman with two firsts

Brig. Gen. Diana Holland was named the first female commandant of cadets at the U.S. Military Academy at West Point, New York and she assumed command as the 76th commandant of cadets during a ceremony at West Point, Jan. 5.

Holland assumes the command after serving as the deputy commanding general (support), 10th Mountain Division (Light) at Fort Drum, New York. Acting Army Secretary Eric Fanning praised the selection of Holland.

“Diana’s operational and command experiences will bring a new and diverse perspective to West Point’s leadership team,” Fanning said. “She is absolutely the right person for this critical position.”

“I am very honored to be named the next commandant of the U.S. Corps of



Army Chief of Staff Mark A. Milley, left, shakes hands with Capt. Kristen M. Griest, one of the first female Soldiers to earn the Ranger tab at Fort Benning, Georgia, Aug. 21, 2015.

Photo by Patrick A. Albright

Cadets,” Holland said. “It’s a privilege to be part of the team that trains and develops leaders of character for our Army. I look forward to continuing the legacy set by Maj. Gen. Thomson and all previous commandants.”

Holland’s other first was her previous assignment to 10th Mountain Division, which had never had a female general.

First for Maryland

Maj. Gen. Linda Singh, the first African-American and first woman to serve as adjutant general of the Maryland National Guard, took command of the Maryland National Guard, Jan. 21, 2015.

“This is huge - just for the progress of women in leadership,” Singh said.

As the 29th adjutant general of Maryland, Singh is responsible for the daily operations of the Maryland Military Department, which includes the Maryland Army National Guard, Maryland Air National Guard, Maryland Emergency Management Agency, and Maryland Defense Force. She is a senior advisor to the Governor of Maryland, and is responsible for the readiness, administration, and training of more than 6,700

members of the Military Department. As the adjutant general, she serves as the official channel of communication between the governor and the National Guard Bureau and serves as a member of the governor’s cabinet.

Retrospective of progress

Lt. Gen. Karen E. Dyson, military deputy to the assistant secretary of the Army (financial management and controller) and one of only five three-star women Soldiers, said that willingness to travel and take on new challenges can facilitate better opportunities and growth for women in the military.

“That might be a question to ask yourself - are you on a career path that you’re happy with,” she said. “Sometimes it’s not our choice to travel, but it forces us out to do things, completely different things... that can be marked by change and opportunity -- sometimes the change creates the opportunity -- sometimes the opportunity creates the change.”

(Editor’s note: Contributors included David Vergun, Cheryl Pellerin, David Ruderman, Gary Sheftick and J.D. Leipold)

Commissaries accepting applications for Military Children Scholarships

By **MIKE PERRON**
DeCA

Note: A previous version of this information had an error in the instructions for submitting an application for the scholarship program. Applications may not be submitted online.

Now in its 16th year, the Scholarships for Military Children Program has been accepting applications from eligible students at commissaries worldwide since Dec. 15, 2015.

A total of 700 scholarship grants, each worth \$2,000, will be awarded for the 2016-17 school year. Those students selected for the honor will join nearly 9,000 who’ve been awarded more than \$13.9 million in scholarship grants over the last 15 years.

At least one scholarship will be awarded at every commissary location where qualified applications are received. Additional recipients will be selected based

on a prorated basis, so more scholarships will be awarded at those commissaries with larger numbers of applicants.

To qualify for consideration, applicants must be a dependent, unmarried child, younger than 21 - or 23, if enrolled as a full-time student at a college or university - of a service member on active duty, a Reserve or Guard member, retiree or survivor of a military member who died while on active duty, or survivor of a retiree.

Applications must be hand-delivered or shipped via U.S. Postal Service or other delivery methods to the commissary where the applicant’s family normally shops by close of business Friday, Feb.



12, 2016. Applications cannot be emailed or faxed.

Applicants should ensure that they and their sponsor are enrolled in the Defense Enrollment Eligibility Reporting System database and have a military ID card. The applicant must attend or plan to

attend an accredited college or university, full time, in the fall of 2016 or be enrolled in studies designed to transfer to a four-year program.

Students who are awarded a full scholarship or receive an appointment to one of the military academies or affiliated preparatory schools are not eligible to receive funds from this program. A full scholarship is usually defined as one that pro-

vides for payment of tuition, books, lab fees and other expenses.

Fisher House Foundation, a nonprofit organization that helps service members and their families, administers the program. Scholarship Managers, a national, nonprofit, scholarship management services organization, manages and awards the scholarships.

The commissary’s industry partners - vendors, suppliers and manufacturers -and the general public donate money to the program, and every dollar donated goes directly toward funding the scholarships.

For more information, students or sponsors can visit www.militaryscholar.org; call Scholarship Managers at 856-616-9311; or email militaryscholar@scholarshipmanagers.com.

For a video related to this release, go to <https://www.youtube.com/watch?v=JoC4Zknn1I4>.



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MARK YOUR CALENDAR

**MORE
ONLINE**

More events can
be seen at [www.
TeamAPG.com](http://www.TeamAPG.com)

events&town halls

THURSDAY JANUARY 28

APG RETIREMENT CEREMONY

The first APG Installation Retirement Ceremony of 2016 will be held 11 a.m. at the Ball Conference Center in Dickson Hall, Bldg. 3074. Gary P. Martin, Program Executive Officer for Command, Control and Communications-Tactical will host the event and present awards.

The honorees include Phillip Pierson, inspector general of the U.S. Army Communications-Electronics Command; Thomas A. Buettner, an engineering technician with the Army Test and Evaluation Command's Aberdeen Test Center; and Chief Warrant Officer 2 Hugo F. Jimenez-Solis, HHC 7th Transportation Brigade (Expeditionary), at Joint Base Langley-Eustis, Virginia.

For more information about this or future retirement ceremonies, contact Lisa Waldon, lead operations officer, Directorate of Plans, Training, Mobilization & Security, at 410-278-4353 or lisa.m.waldon.civ@mail.mil.

THURSDAY FEBRUARY 11

BLACK HISTORY MONTH OBSERVANCE

The 20th CBRNE Command invites Team APG to participate in the installation's Black History Month Observance at the APG South (Edgewood) recreation center from 10:30 a.m. to noon.

This year's theme is "Hallowed Grounds: Sites of African American Memory."

THURSDAY MARCH 17

ARMED SERVICES BLOOD PROGRAM BLOOD DRIVE

Donors – jack into the blood grid and infuse life. The Armed Services Blood Program will host a blood drive at the APG North (Aberdeen) recreation center 9 a.m. to 1 p.m. Walk-ins are welcome, but donors are encouraged to make appointments online at www.militarydonor.com. Use the sponsor code APGMD.

For more info, visit militaryblood.dod.mil.

meetings&conferences

ONGOING

BIBLE STUDY CLASS

The Religious Services Office hosts a new Soldier and Family Christian Fellowship Bible Study Class 6:30 p.m. to 7:30 p.m., every Tuesday at the APG North (Aberdeen) chapel. Free childcare is included. The class focuses on biblical fellowship and outreach and encouragement through prayer and is open to the entire APG community. For more information, call 410-278-4333.

health&resiliency

WEDNESDAY JANUARY 27

APG IRON EAGLE COMPETITION

The APG Army Performance Triad initiative will host the second APG Iron Eagle 6 a.m. at the APG South (Edgewood) Hoyle Gym. The event will consist of pushups, sit-ups, pull-ups, dips and a running event.

For more information, contact Capt. Joanna Moore, Performance Triad Action Officer, at (410) 278-1773 or joanna.t.moore.mil@mail.mil.

THURSDAY JANUARY 28

FREE VISION SCREENINGS & EYE HEALTH/ WELLNESS EDUCATION SESSION

The C4ISR Wellness Committee will host free vision screenings and an Eye Health and Wellness session open to all members of Team APG at the Myer Auditorium, Bldg. 6000, from 11 a.m. to 1 p.m.

The vision screening will include three painless tests that assess color perception, visual acuity and peripheral vision. Participants will receive an Amsler Grid and instructions on how to test vision at home for certain disorders like macular degeneration and glaucoma.

Additional eye health and wellness information offered will include:

- At Risk Assessment – Are you at risk for eye disease?
- Simple Tips for Healthy Eyes
- Computer Vision Syndrome
- Heart Disease and Eyes
- Diabetes and Eyes
- Glaucoma
- UV Radiation and Your Eyes

The vision screenings at this event are not a complete professional examination and should not be taken as such. Only a comprehensive eye and vision examination can evaluate your overall eye health and vision status.

Any contractors who participate in CECOM activities must not invoice any government contracts for time spent at these activities. C4ISR Slim Down participants should bring their Wellness Activity Rosters

for attendance credit.

For more information, contact Tiffany Grimes at 443-861-7901 or tiffany.l.grimes.civ@mail.mil.

THROUGH MID-2016

ARMY WELLNESS CENTER RELOCATED

As a result of ongoing renovations to Kirk U.S. Army Health Clinic, the APG Army Wellness Center has relocated to the trailers directly across from the main KUSAHC building, near the Veterinary Treatment Facility.

For more information, contact the wellness center at 410-306-1024.

THROUGH MID-2016

KUSAHC OCCUPATIONAL HEALTH RELOCATED

As a result of ongoing renovations to Kirk U.S. Army Health Clinic, occupational health services have relocated to the trailers directly across from the main KUSAHC building, near the Veterinary Treatment Facility.

For more information, contact occupational services at 410-278-1912/1913.

ONGOING

VETERINARY TREATMENT FACILITY NEW HOURS

Based on customer demand, the APG Veterinary Treatment facility will have new hours starting in January.

The VTF will be open and accept appointments Tuesday and Wednesday, 8 a.m. to 5 p.m.

Should demand increase, the clinic will reevaluate days and hours of operation.

The clinic is open to all service members, retirees, and their families.

To schedule an appointment, call 410-278-4604.

ONGOING

2016 CPR & AED TRAINING CLASS SCHEDULE

The APG Directorate of Emergency Services has announced the CPR/AED class schedule for 2016. Classes are open to the entire APG community.

All APG North (Aberdeen) classes will be held at Bldg. 3147. All APG South (Edgewood) classes will be held at the Maryland Fire and Rescue Institute's North East Regional Training Center, located near the Edgewood (Wise Road) gate.

- **Feb. 18** – APG South – MFRI North East Regional Training Center – 9 a.m. & 1 p.m.
- **March 17** – APG North – Bldg. 3147, Rm 205 – 9 a.m. & 1 p.m.
- **April 21**– APG South – MFRI North East Regional Training Center – 9 a.m. & 1 p.m.
- **May 19** – APG North – Bldg. 3147, Rm 205 – 9 a.m. & 1 p.m.
- **June 16** – APG South – MFRI North East Regional Training Center – 9 a.m. & 1 p.m.
- **July 21** – APG North – Bldg. 3147, Rm 205 – 9 a.m. & 1 p.m.
- **Aug. 18** – APG South – MFRI North East Regional Training Center – 9 a.m. & 1 p.m.
- **Sept. 22** – APG North – Bldg. 3147, Rm 205 – 9 a.m. & 1 p.m.
- **Oct. 20** – APG South – MFRI North East Regional Training Center – 9 a.m. & 1 p.m.
- **Nov. 17** – APG North – Bldg. 3147, Rm 205 – 9 a.m. & 1 p.m.
- **Dec. 15** – APG South – MFRI North East Regional Training Center – 9 a.m. & 1 p.m.

For more information, contact Mike Slayman at 410-306-0566.

ONGOING

WEAR BLUE: RUN TO REMEMBER HARFORD COUNTY/APG

A Harford County/APG-based Wear Blue: Run to Remember community has been established, with ongoing meets the second Saturday of every month 8:30 a.m. at the Maryland and Pennsylvania Heritage Trail in Fallston.

Wear Blue: Run to Remember communities run, jog and walk in honor of the nation's fallen, fighting and families.

Those interested in participating in the run should meet at the Annie's Playground – Pavilion at 864 Smith Lane, Fallston, Maryland. Pets are allowed, but park rules do not allow retractable leashes.

All ability levels are welcome. Participants are strongly encouraged to wear blue.

Upcoming dates include:

■ Feb. 13

For more information, contact Robin Bruns at 910-987-6764 or brunrsrd@yahoo.com.

ONGOING

KUSAHC CLOSED FIRST WEDNESDAY OF EVERY MONTH

Kirk U.S. Army Health Clinic believes the key to being the premier health and readiness platform is a professionally-developed workforce, and reinvesting in employees is

an investment to their service to APG.

As such, KUSAHC will close the first Wednesday of every month for training purposes until further notice.

For more information, visit <http://kusahc.narmc.amedd.army.mil/SitePages/Home.aspx> or www.facebook.com/KUSAHC.

family&children

SUNDAY JANUARY 31

CORVIAS/NATIONAL MILITARY FAMILY ASSOCIATION SPOUSE SCHOLARSHIPS APPLICATION DEADLINE

Corvias Foundation, a private, charitable foundation and the charitable arm of Corvias Group, and Corvias Military Living have partnered with the National Military Family Association to support scholarships in excess of \$20,000 for military spouses seeking professional funds including licensure and certification.

Due to frequent moves, the spouse scholarships are intended to support licensing or registration in a new state or the ability to progress in a career with an additional technical certification.

To confirm eligibility and apply for a scholarship, visit www.militaryfamily.org/spouses-scholarships/professional-funds-partners.html. Applications are due by Jan. 31.

miscellaneous

ONGOING

FREE INCOME TAX PREP

The Office of the Staff Judge Advocate, Client Services Division offers free income tax preparation for eligible patrons, including active-duty service members, retirees and their family members.

The OSJA, CSD is located in Bldg. 4305, Room 317. Its hours of operation are Monday – Thursday, 9 a.m. to 1 p.m.

For more information, or to schedule an appointment, call 410-278-1583.

ONGOING

ROAD CLOSURE ON APG NORTH FOR MORNING PT

Bel Air Street, at the intersections of Susquehanna Avenue and Raritan Avenue, will close 6 a.m. to 8 a.m., Monday through Friday, for physical fitness training. Barriers will be placed at these intersections approximately 5:50 a.m. and removed 8 a.m. by military personnel. This small road closure is to support military personnel who conduct physical training along the outside trail on Fanshaw Field.

For more information, contact APG Garrison HHC 1st Sgt. Jermaine A. Allen at 410-278-9819.

THROUGH FEBRUARY 2

ARMY COMMUNITY SERVICE SURVEY

Dear Aberdeen Proving Ground (APG) Community Member, You are a valued member of the Army Family, supporting an important mission at APG.

The Family and Morale, Welfare & Recreation Directorate's (FMWR) Army Community Service (ACS) is evaluating how well we support your quality of life through programs and services.

Contact 410-278-2500/7572 for assistance.

To take the survey, visit www.armymwr.com/ACS-survey.

ONGOING

2016 FIRE MARSHALL PROGRAM SCHEDULE

The APG Directorate of Emergency Services Fire Protection & Prevention Division will host Fire Marshall classes the second Wednesday of the month, unless otherwise noted. All classes will be held from 9 a.m. to noon and attendees will receive a certificate of completion at the end of the class.

Upcoming class dates include:

- **Feb. 18** – APG North, Bldg. 4403
- **March 29** – APG South, Bldg. E4810
- **April 14** – APG North, Bldg. 4403
- **May 19** – APG North, Bldg. 4403
- **June 28** – APG South, Bldg. E4810
- **July 14** – APG North, Bldg. 4403
- **Aug. 11** – APG North, Bldg. 4403
- **Sept. 27** – APG South, Bldg. E4810
- **Oct. 13** – APG North, Bldg. 4403
- **Nov. 17** – APG North, Bldg. 4403
- **Dec. 15** – APG North, Bldg. 4403
- **Dec. 20** – APG South, Bldg. 4403

Additional classes can be scheduled on a case-by-case basis. For more information, contact Inspector Loren Brown at 410-278-1128.

ONGOING

2016 FIRE EXTINGUISHER TRAINING

The APG Directorate of Emergency Services Fire Protection & Prevention Division will host fire extinguisher training classes on APG North (Aberdeen) and APG South

(Edgewood) throughout 2016.

Two classes will be held each day from 10 a.m. to noon, and 1 p.m. to 3 p.m. at the following dates and locations:

- **Feb. 25** – APG South, Bldg. E4810
- **March 17** – APG North, Bldg. 4403
- **April 14** – APG South, Bldg. E4810
- **May 19** – APG North, Bldg. 4403
- **June 23** – APG South, Bldg. E4810
- **July 14** – APG North, Bldg. 4403
- **Aug. 17** – APG South, Bldg. E4810
- **Sept. 15** – APG North, Bldg. 4403
- **Oct. 13** – APG South, Bldg. E4810
- **Nov. 17** – APG North, Bldg. 4403
- **Dec. 22** – APG South, Bldg. E4810

For more information, contact Ernie Little at 410-306-0583 or ernest.w.little.civ@mail.mil.

THROUGH MARCH 23

2016-2017 SENIOR SERVICE COLLEGE FELLOWSHIP PROGRAM NOW ACCEPTING APPLICATIONS

The U.S. Army Acquisition Support Center is currently accepting applications for the 2016-17 SSCF program through March 23. The SSCF Program is a 10-month educational opportunity conducted under the auspices of the Defense Acquisition University (DAU) at Huntsville, Alabama, Warren, Michigan and Aberdeen Proving Ground, Maryland.

The SSCF program prepares government civilians at the GS-14/15 levels or equivalent for senior leadership roles by provides training in leadership and acquisition. Program components include completion of DAU's Program Management Course (PMT 401), courses in leadership, applications of acquisition to national defense issues, research in acquisition topics, mentoring, and a distinguished speaker program.

For complete program information and application requirements, please visit: <http://asc.army.mil/web/career-development/programs/defense-acquisition-university-senior-service-college/>

For APG specific program information, please visit: <http://www.dau.mil/sscf/Pages/apg.aspx>

For more information about the program, please contact Jim Oman at james.oman@dau.mil or 410-272-9470.

ONGOING

FIREWOOD AVAILABLE FOR SALE

Firewood is available at a cost of \$20 per level standard 8-foot pick-up truck, \$15 per level standard 6-foot pick-up truck, and \$5 per car trunk load. Permits to buy wood are good for ten days, or until an order is filled, whichever comes first. Permits will be issued 8 a.m. to 3 p.m. on a first-come-first-served basis at APG South (Edgewood) in Bldg. E4630, Monday through Thursday. For more information, contact Scott English at 410-436-9804 or Kathy Thisse at 410-436-8789.

ONGOING

RETIRING SOON? UNCLE SAM WANTS TO THANK YOU!

Are you an APG Soldier or civilian nearing retirement from government service? Consider participating in the monthly Installation Retirement Ceremony.

The APG Garrison hosts the event the fourth Thursday of each month –except November – and the first Thursday in December, at the Dickson Hall (Ball Conference Center).

Much goes into the planning for these events. Event planners set up flag displays, write speeches, print programs, provide sound equipment and photography support and even create photo DVDs for each retiree.

Also, awards and decorations are presented to retirees and their spouses.

All Soldiers and civilians are eligible to participate in the Installation Retirement Ceremony regardless of unit or organization.

This is a program designed to thank retiring personnel for their loyalty and perseverance and for the sacrifices they endured while serving the nation.

Retirees are encouraged to participate and to share this day with family members and friends.

After all, Uncle Sam wants to thank you. Don't you think you've earned it?

For more information, contact Lisa M. Waldon, Garrison Training Operations Officer, at 410-278-4353 or email lisa.m.waldon.civ@mail.mil.

If you see it, report it

Aggressive driving has no place at APG call 410-306-0550





A look back at Desert Storm, 25 years later

By **SENIOR AIRMAN HAILEY HAUX,**
Secretary, USAF Public Affairs

January 2016 marks the 25th anniversary of Operation Desert Storm. The Air Force participated in the largest air campaign since the conflict in Southeast Asia. The campaign's purpose was to drive the Iraqi military out of Kuwait, release the country from Saddam Hussein's invasion and reestablish its sovereignty.

On the morning of Aug. 2, 1990, Iraq invaded nearby Kuwait. In less than four hours, Iraqi forces occupied the capital, Kuwait City, and Iraqi dictator Saddam Hussein soon annexed the country as the 19th province of Iraq. The U.S. government initiated Operation Desert Shield in response.

Several months later, on Jan. 16, 1991, following Congressional concurrence with United Nations efforts to enforce a resolution that demanded Iraq's withdrawal from Kuwait, Desert Storm was launched.

"The real mission, the immediacy of that mission ... was to deploy as many forces as possible to deter further aggressiveness by the Iraqi military and of course the Air Force was the first on the list, along with the Navy and the aircraft carriers, to deploy in the region," said retired Lt. Gen. Bruce A. "Orville" Wright, a Desert Shield/Storm veteran. "It was a rapid deployment of forces from the continental United States (and some forces from Europe) to put enough

airpower in place so the Iraqi military would be discouraged, if not deterred.

“We took out their eyes and ears, their control capability,” he continued. “The entire ground operations lasted about 100 hours and that’s a credit to the joint coalition airpower that was employed against the Iraqi military. We were all excited, that’s what we trained for our whole career. To take 24 F-16s and a squadron of very capable highly-trained pilots and maintenance professionals ... and defeat what was then the largest ground force.”

The air campaign marked the initial phase of the war and for the Air Force, air superiority was the goal. With more than 68,800 total force Airmen being rapidly deployed in support of Desert Storm, there were approximately 69,406 sorties flown by 30 different types of aircraft.

"I remember thinking, 'Saddam Hussein has no idea what's coming,' and after the first 60 minutes of the war, he will be largely disconnected from his tactical forces and he was. They tried to reconnect, but in many ways we began the decapitation of the leadership within the first 15 minutes of the war," said Maj. Gen. Paul T. Johnson, an operational capability requirements director and Desert Storm veteran. "I really hope we can remember how we came together as a joint and a coalition team, nations from all over the world, all of the services supporting each other, generating effects for

one another to achieve an effect in an incredibly short period of time.”

Desert Storm marked the first conflict in history to make comprehensive use of stealth and space systems support capabilities against a modern, integrated air defense, allowing the Air Force to succeed in their endeavor of air superiority.

"Over time, I have come to understand the enabling capabilities that came to us from space, came to us out of stealth [and] that came to us out of new weapons and ammunitions that allowed us to do things in ways that we hadn't done them before," Johnson said. "Our ability to dynamically command and control across an entire theater there were things that, looking back now in hindsight, fundamentally began the transformation of airpower. There are so many things that we take for granted today ... that saw their beginnings in Desert Storm."

As with any mission, operation or task, there are lessons learned. Desert Storm taught the Air Force that being on the cutting edge of revolutionary technology is critical to success.

"That was the first time the investments, that had been made in some cases a decade or two decades earlier, came

together on the battlefield and for the first time the world saw what the United States Air Force could do," said Air Force Secretary Deborah Lee James. "Looking back and learning from Desert Storm, it is more important than ever before that we continue to modernize our force, gaining the advantage to defeat any adversary we may face in the future."

On Feb. 28, 1991, after six weeks of air attacks and 100 hours of a ground campaign, President George H.W. Bush declared a cessation of operations and announced that Kuwait had been liberated.

"The memories and lessons learned from Desert Storm continue to define today who we are," Wright said. "We have the ability to defend the nation that's founded on, not just the history of Desert Storm but the history of airpower from World War I to World War II to Korea, Vietnam, Desert Storm and today. We have been in this fight now for 25 years and those Airmen who are out there today are critical. They are critically important to the safety of our fellow citizens and critically important to the future of the United States of America."

BY THE NUMB#RS

National Blood Donor Month

January is National Blood Donor Month, a time when organizations like the American Red Cross will tribute the nation's 11 million annual donors and encourage others to give the gift of life. National blood supplies often dwindle during the winter months due to inclement weather, illnesses and other factors.

40,000

Approximate number of pints of blood used each day in the U.S.

56

Number of days healthy donors must wait before they can give blood again.

38

Estimated percentage of the U.S. population that is eligible to donate blood. Less than 10 percent actually donate blood.

10

Number of pints of blood in the average adult body. Roughly one pint is given during a donation.

9

Percentage of people in the U.S. with type O negative blood; it's a universal blood type that can be given to anyone, regardless of their blood type.

1 pint


Amount of blood that can save up to three lives.

By **RACHEL PONDER**, *APG News*

Source(s):


<http://www.redcrossblood.org/>

<https://www.bloodsource.org/>



iWATCH ARMY

iREPORT
i KEEP US SAFE



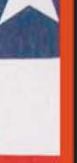
A Simple Observation
 A Single Report can lead to actions that may STOP a terrorist attack

THINK ABOUT THE POWER OF THAT. THE POWER OF iWATCH.


See Something Say Something

To report suspicious behavior at APG,

CALL 306-2222.



Always Ready, Always Alert
Because someone is depending on you



<https://www.us.army.mil/suite/page/605757>

How to be a safer driver in winter

www.osha.gov

Winter driving can be hazardous and scary, especially in northern regions that get a lot of snow and ice. Additional preparations can help make a trip safer, or help motorists deal with an emergency. Here is safety information from the Department of Labor’s Occupational Safety and Health Administration to help prevent motor vehicle injuries due to winter storms.

- The Three P’s of Safe Winter Driving:
- PREPARE for the trip
 - PROTECT yourself
 - PREVENT crashes on the road.

Prepare

Maintain your car: Check battery, tire tread, and windshield wipers, keep your windows clear, put no-freeze fluid in the washer reservoir, and check your antifreeze.

Have on hand: flashlight, jumper cables, abrasive material (sand, kitty litter, even floor mats), shovel, snow brush and ice scraper, warning devices (like flares) and blankets. For long trips, add food and water, medication and cell phone.

Stopped or stalled. Stay with your car, don’t over exert, put bright markers on antenna or windows and shine dome light, and, if you run your car, clear exhaust pipe and run it just enough to stay warm.

Plan your route: Allow plenty of time (check the weather and leave early if necessary), be familiar with the maps/directions, and let others know your route and arrival time.

Practice cold weather driving. During daylight, rehearse maneuvers slowly on the ice or snow in an empty lot.

- Steer into a skid
- Know what your brakes will do: stomp on antilock brakes, pump non-



Courtesy Photo

antilock brakes

- Stopping distances are longer on water-covered ice and ice
- Don’t idle for a long time with the windows up or in an enclosed space

Protect yourself

- Buckle up and use child safety seats properly.
- Never place a rear-facing infant seat

in front of an air bag.

Children 12 and under are much safer in the back seat.

Prevent crashes

Drugs and alcohol never mix with driving.

Slow down and increase distances between cars.

Keep your eyes open for pedestrians

walking in the road.

Avoid fatigue – Get plenty of rest before the trip, stop at least every three hours, and rotate drivers if possible.

If you are planning to drink, designate a sober driver.

For more information, visit the OSHA website at <https://www.osha.gov/Publications/safeDriving.html>.

Make sure your winter fun is not a wipe out

By **VERONIQUE HAUSCHILD**
PHC

The silver lining to the shorter, colder days of winter is the snow and the outdoor sports activities that are typically reserved for this time of year. Winter activities such as skiing, snowboarding, snowmobiling, sledding and ice-skating provide fun, excitement, fresh air and good exercise for all ages.

Unfortunately, every year these winter activities result in hundreds of thousands of injuries as well as many deaths in the U.S. Injuries occur in both recreational and professional athletes alike. The growing popularity of skiing and snowboarding are now a focus of scientific study as emergency rooms see increases in the numbers and severity of injuries. A recent study of fall-related injuries in the active-duty Army showed that snowboarding and skiing were the leading sports causing such injuries. Many of the injuries occurred during military-unit organized events. Military personnel need to be aware of the injury types, factors that increase risk of injury and the ways to reduce chances of injury.

Injury types

A particular concern is that at least 15 to 20 percent of winter sports injuries involve head trauma, including concussions and mild to severe traumatic brain injuries. Injuries to the head and spine are ones that are most commonly associated with fatalities. Two-thirds of the head injuries are estimated to be mild TBIs. Overall, bone fractures are the most frequently reported type of injury associated with winter sports. During skiing, injuries to the lower parts of the leg and foot - including knee and ankle - are most common. These include fractures as well as sprains or ligament tears in joints such as thumbs or the anterior cruciate ligament of the knee. Snowboard fractures are more often to the wrist and hand, as well as arm and clavicle. Some data suggests possible long term impairments from winter sports injuries.

Cold weather injuries such as frostbite and hypothermia are also reported - especially in conjunction with snowmobiling injuries when accidents can occur in unpatrolled or monitored areas. Other conditions considered less severe, but which can still limit further activity and require extended rest, include mus-



DVIDS photos

(From top Left) Skiing and snowboarding activities are sometimes organized for military units at nearby resorts; Young male Soldiers fit the profile of those most frequently injured in skiing and snowboarding.

cle strains and soreness, dehydration, snow blindness and sunburn.

Factors associated with injury risk

Several studies evaluated winter sports injuries for potential factors associated with higher risk of injury or greater injury severity. Because skiing and snowboarding are associated with the highest numbers of severe injuries they are the most studied. The numbers and severity of injuries appear higher at the start of the season. Recreational skiers and snowboarders are more likely to experience more severe injuries than those experienced by professionals. However, even today’s professionals experience injuries requiring four to six weeks of recovery. More males experience injuries than females, especially those in their late teens to mid-twenties. Though nuances of the type of skiing or snowboarding such as speed races, freestyle, snowboard cross have some different patterns of injury types, increased risks appear more associated with improper use or lack of protective equipment and exceeding one’s experience or skill level.

Reducing your chance of injury

Though there are risks, winter sports can be an exhilarating and fun form of

healthy exercise. It is important to do what you can to reduce the risk of incurring winter sports-related injuries by following best practice guidelines below.

- Wear a helmet since these are the primary evidence-supported means to reduce risk of severe head injuries.
- Wear wrist guards - especially snowboarding - to reduce risk of wrist fractures.
- Wear other appropriate clothing/equipment such as boots and goggles.
- Check that equipment works before each use - test your board or ski bindings.
- Know your level of experience/skill and knowledge of terrain.
- Seek proper training or certifications.
- Try more complicated slopes or techniques only after practicing.
- If at a new location, start slow and easy until terrain is familiar.
- Be wary of poor trail design or unknown, unmaintained areas.
- Use official designated groomed and patrolled trails and sports areas as opposed to ‘backyard’ private lands.
- Be aware that even some maintained slopes or trails may have “black spots,” areas known for conditions that have resulted in repeated or high numbers of injuries - merging slopes, narrowing or sharp turning trail and poor grooming.

- Physically condition your body, if new to the sport, at the start of the season or when attempting new techniques or equipment.
- Do exercises to prepare your body for the less stable lower body movements required of many winter sports. Examples include lower body muscle exercises - squats and lunges, balance - stability balls, wobble boards and agility moves - shuttle drills.
- Slowly progress in level of intensity, time and ensure rest breaks.
- Be prepared by following the above guidance and also remember to:
 - Wear layers of clothing to keep warm and dry, including socks and gloves and replace wet items or layers as soon as possible.
 - Use sun protection - UVA/UVB sunglasses, SPF15+ for exposed skin and lips.
 - Stay hydrated.
 - Keep a phone/radio as a means to contact help.
 - Be a good leader.
 - Emphasize the safe practices described above.
 - Enforce use of proper procedures and use of protective gear.
- For more information, contact the Army Public Health Center’s Injury Prevention Program at usarmy.apg.medcom-phc.mbx.injuryprevention@mail.mil.

5

ways to reuse your copy of the APG News

1. Protect fragile items before storing them or sending them in the mail.

2. Line pet cages or litter boxes to keep them tidy.

3. Save the counter from a gluey, glittery mess during your next craft project.

4. Clean glass or windows for a streak-free shine.

5. Make a weed barrier in a flower bed or garden before laying new topsoil.



All Things MARYLAND

Wisp Resort & Mountain Park

A true four-season outdoor recreation destination

By **RACHEL PONDER**
APG News

An inviting winter getaway, Wisp Resort, located in western Maryland, near Deep Creek Lake, has something for everyone, all year round.

According to Lori Zaloga, Wisp Resort director of marketing, the attraction is unique, due to easy access from the Baltimore and Washington, D.C. metro areas.

“We are 14 miles off of Interstate-68 west bound,” she said. “Wisp Resort is a true four-season destination offering a large variety of outdoor recreation in a scenic mountain setting with Maryland’s largest freshwater lake in close proximity.”

Zaloga said another advantage is that everything is located on-site. The resort has lodging, shopping, and numerous dining options.

“Once you arrive here, you don’t need to move your car from the parking lot, until you are ready to go home,” she said.

Skiing and snowboarding

Wisp Resort has 34 beginner, intermediate and expert slopes. At night, more than 90 percent of the skiable terrain is lit for night skiing and snowboarding.

A new area for beginner skiers and snowboarders called “Sundown Village,” features two beginner slopes serviced by three conveyor carpets (a type of ski lift) and a “Wisp Kids” area with one conveyor carpet. Classes led by experienced instructors are available for children and adults. Special beginner packages include a lesson, rentals and a lift ticket.

Guests can also experience cross-country skiing and snowshoeing at the “Wisp Outdoors Nordic Center” located behind the Wisp Resort Hotel. Tours, instruction and rentals are available for cross-country skiing and snowshoeing.

Wisp Mountain Park

For those looking for a different adventure, Wisp Resort offers a variety of activities for the whole family at the “Wisp Mountain Park.”

According to the Wisp Resort website, snow tubing is growing in popularity because it doesn’t require lessons or special equipment. Tubing is similar to sledding without the hassle of carrying a tube or a sled up a hill. After a guest slides down a tube shoot, they are carried up the hill, with their tube, by a conveyor carpet.

Another popular attraction is the Mountain Coaster, which opened in 2007. Zaloga said this coaster, which operates all year, is the only one like it in the Mid-Atlantic region.

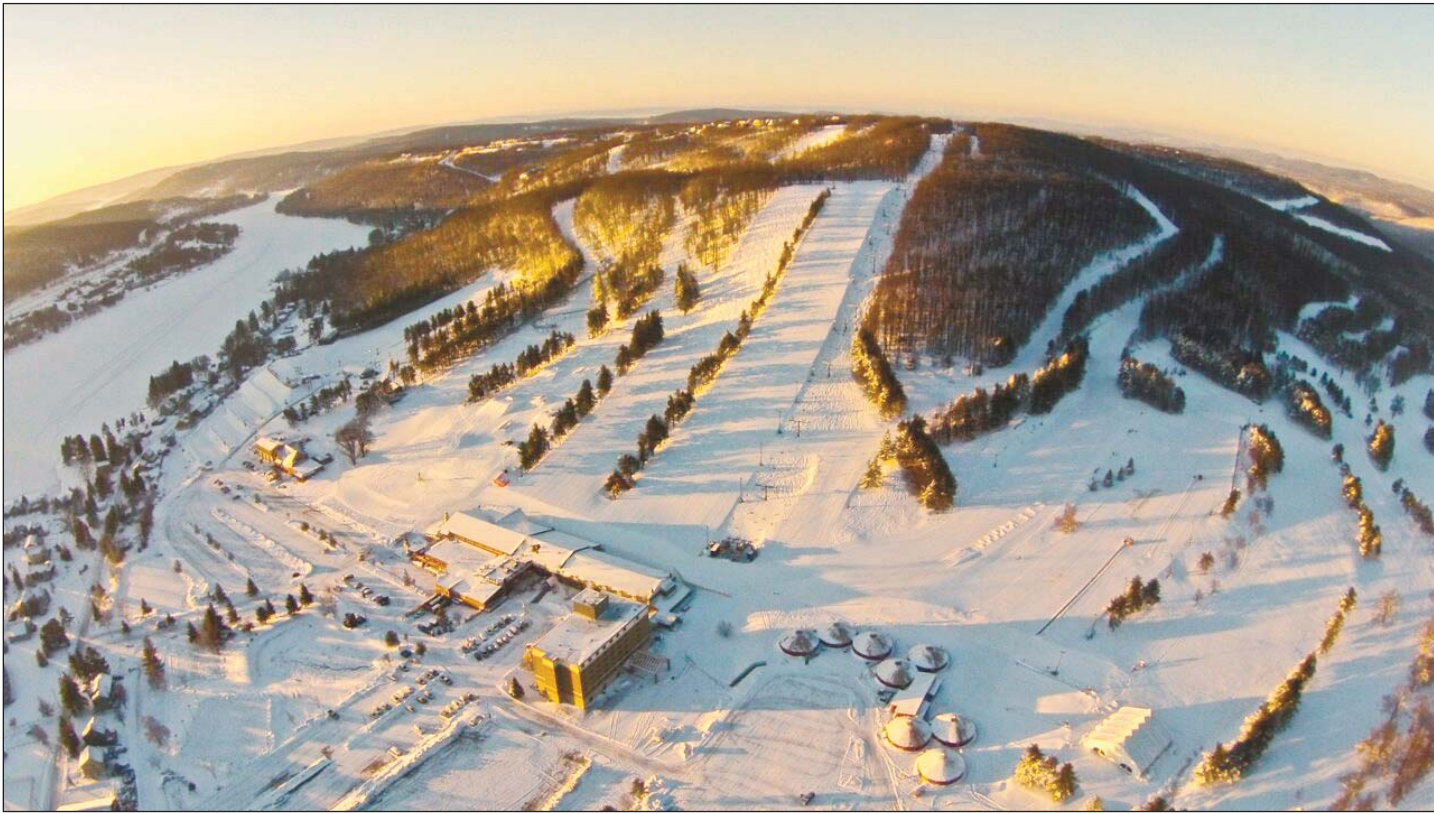
“The Mountain Coaster [has the] gravitational hybrid of an alpine slide and a roller coaster boasting a 1,300-foot uphill track while twisting, turning, dipping and rolling for 3,500 feet downhill over 350 vertical feet on the eastern side of Wisp Mountain,” she said.

Zaloga added that guests ride in coaster carts and regulate their own speed with a set of handbrakes on the sides of each cart. A centrifugal braking system restricts the coaster cart’s downhill speed at approximately 28 miles per hour.

Wisp Mountain Park also offers ice skating during the winter.

Spring, summer and fall activities

During the warmer months, there is



(Clockwise from top)
An aerial view of Wisp Resort, a four-season ski-in/ski-out hotel and golf resort near Deep Creek Lake.

A skier navigates a slope on a clear day.

Children ride together down a hill on snow tubes, a winter activity offered at Wisp Mountain Park.

Guests ride on the Mountain Coaster, a gravitational hybrid of an alpine slide and a roller coaster.

Photos courtesy of Wisp Resort

still plenty to do at Wisp Resort. Two golf courses are located on the premises. The Lodestone Golf Course, was ranked the number two public golf course in Maryland by “Golfweek Magazine” from 2012 through 2015. Hale Irwin, a three-time U.S. Open Champion helped design this course.

“The views are quite scenic,” said Zaloga. “At Hole 13, you can see Deep Creek Lake.”

Wisp Resort also has a variety of “Aerial Adventures” for children and adults. The most physically demanding, the “Flying Squirrel Canopy Tour,” has agility challenges and five zip lines.

Adventure enthusiasts will also enjoy activities like mountain biking, indoor laser games, Segway tours, scenic chairlift rides, guided hiking, white water rafting, pontoon boat tours, rock climbing and rappelling. Guests can also rent

kayaks, canoes and paddleboards.

Wisp Resort is located at 296 Marsh Hill Road in McHenry. For more information about activities and pricing visit <http://www.wispresort.com/> or call 301-859-3159. The resort’s “Military March Promotion” offers military personnel up to 25 percent off lift tickets, rentals, lessons, mountain coaster, snow tubing and ice skating, when they show their military ID.

When will your Form 1099R become available?

www.dfas.mil

The IRS Forms 1099R for the 2015 tax year became available on myPay in mid-December 2015. You should be able to access yours on myPay.

The Defense Finance and Accounting Service (DFAS) will also mail hard copies of the 1099R to those who have not elected an electronic copy via myPay. Please keep in mind that hard copy versions of the 1099R were not mailed until late December 2015; therefore, electing to go electronic through myPay will allow you to begin preparing your taxes early.

Please note that 1099R’s are not automatically issued for deceased members. If you want to receive a 1099R on the behalf of a member who passed away, a certificate of death must be on file and you must request that a 1099R be issued. If you would like to make this request, or have questions regarding a 1099R for a deceased member, please contact us using one of the methods described in this link <http://www.dfas.mil/dfas/retiredmilitary/about/aboutus/customer-service.html>.

For more information, visit <http://www.dfas.mil>.

Retirees Corner

Retirees Corner is a new, recurring feature in the APG News. It addresses the topics that matter most to the retirees in our community. For more information about retiree services, visit www.soldierforlife.army.mil. To suggest retiree-related topics for the Retirees Corner series, email amanda.r.rominiecki.civ@mail.mil.

ICE

Want to make a difference in how services are rendered at APG? Tell us how we are doing. Visit <http://ice.disa.mil>.

Click on “ARMY” then “Aberdeen Proving Ground.”

MORALE, WELFARE & RECREATION



Learn more about APG MWR activities and services by going online at www.apgmwr.com.

Website to provide families with single online gateway to military child care

CYSS

Starting in March, APG families will have access to a new DOD website designed to simplify and improve the child care request-for-care process.

MilitaryChildCare.com provides a single online gateway for families to access military-operated or military-subsidized child care options worldwide across all services. The site enables families to create a household profile, conduct child care searches, submit requests for care, and manage their requests at any time and from any location.

The new DOD site – which is being introduced worldwide in phases – offers a more streamlined approach to finding and requesting care, expedites placement through a standardized request process

and waitlist management tools, and provides reports that help programs better plan for future placement needs.

Through MilitaryChildCare.com, eligible families can search and request care for full day and before and after school care options in facility-based and home-based programs for children from birth through age 12.

Families at APG who are currently active on waitlists will be automatically transitioned to the new web-based system. These families will retain the original date of their request(s) for care, and all program enrollment processes will remain the same.

For additional information, call the APG MWR CYSS Parent/Outreach Services Office at (410) 278-7479 or 7571.

MILITARY CHILDCARE dot com

Go to MILITARYCHILDCARE.COM to access the new Department of Defense (DoD) program that makes it easier to find the child and youth care your family needs.

We care for your children
while you protect America

Upcoming Activities

LEISURE & TRAVEL MONSTER JAM FEBRUARY SHOWS

Leisure Travel has discount tickets to Monster Jam at the Royal Farms Arena in Baltimore. Tickets are available for the following show dates and times:

- Feb. 26 at 7:30 p.m.
- Feb. 27 at 2 p.m.*
- Feb. 27 at 7:30 p.m.
- Feb. 28 at 2 p.m.*

*Pit Party 11 a.m. to 12:30 p.m. Event ticket, along with Pit Pass required for entry.

General admission tickets are \$18 for all attendees ages 2 and up. Pit Pass is \$10.50.

To purchase tickets, visit Leisure Travel Services at the APG North (Aberdeen) recreation center. For more information, call 410-278-4011.

CHILD & YOUTH SERVICES FAMILY MOVIE NIGHT FEATURES 'HOTEL TRANSYLVANIA 2' JAN. 29

APG MWR will host a family movie night and youth make-and-take night featuring the movie "Hotel Transylvania" at the APG South (Edgewood) recreation center starting at 6 p.m. Admission is free for movie and activity. Attendees are welcome to bring their own food.

For more information, call 410-278-4011/4907.

'LET'S COOK' YOUTH COOKING CLASSES JAN. 23 FEB. 27 MARCH. 26

International cooking class will teach chil-

dren different skills to prepare foods from different places around the world. The children will learn about sanitation and kitchen safety. They will also be taught different recipes that require little help from their parents. Children will learn to cook up to three dishes including a main dish and a dessert.

Classes are held one Saturday each month. Registration is required along with a \$17 supply fee. Children must be 7-years-old or older.

For more information, email Shirelle Womack at shirelle.j.womack.naf@mail.mil.

MONTH OF THE MILITARY CHILD 2K COLOR FAMILY FUN RUN APRIL 23

APG MWR will host a free 2K Color Family Fun Run starting at 10 a.m. Rain date will be Saturday, April 30. More details to follow.

BEFORE & AFTER SCHOOL CHILD CARE IMMEDIATE OPENINGS

Participants must be registered with the CYSS Parent Central Office. Fees are based on total family income. Fees waived for all middle school students' afternoon care.

For more information, contact the Parent Central Office at 410-278-7571.

SPORTS & RECREATION SUTHERLAND GRILLE CLOSES FOR SEASON THROUGH APRIL 4, 2016

The Sutherland Grille at Ruggles Golf Course is closed for lunch service for the winter season and reopens April 4. During this time, the grille will be available for meetings and special events.

For more information and the special event menu, call 410-278-4794.

ARMY COMMUNITY SERVICE EFMP BOWLING JAN. 25

APG North (Aberdeen) bowling center; 5:30 to 7:30 p.m.

Free bowling for EFMP & APG families with special needs members.

For more information, contact Nancy Goucher, EFMP manager at nancy.e.goucher.civ@mail.mil or 410-278-2420.

Other upcoming EFMP bowling dates include: Feb. 15; March 21; April 18.

ACS SURVEY THROUGH FEB. 2

You are a valued member of the Army Family, supporting an important mission at APG, MD. The Family and Morale, Welfare & Recreation Directorate's (FMWR) Army Community Service (ACS) is evaluating how well we support your quality of life through programs and services. All military community members on and around the APG installation are invited to participate in the upcoming ACS Needs Assessment Survey to gauge the needs of our community.

Visit www.armymwr.com/ACS-survey to complete the survey by Feb. 2. For more information, call 410-278-2500/7572.

APPLYING FOR FEDERAL EMPLOYMENT WORKSHOP FEB. 24

ACS will host an "Applying for Federal Employment Workshop" at Bldg. 2503 from 10 a.m. to 2 p.m. Attendees will learn the 10 steps to federal employment.

Online registration is required, and the class is limited to 25 attendees.

For more information about how to register, call 410-278-9669.

HOW TO START YOUR SMALL BUSINESS MARCH 23

Army Community Service will host a free "How to Start Your Small Business" seminar at Bldg. 2503 from 11:30 a.m. to 1 p.m.

The orientation program provides a brief overview of the ways to smart-start a business and the skills and duties of a successful entrepreneur. The session is open to Team APG personnel and the public.

To reserve a seat, contact Marilyn Howard at 410-278-9669/7572.

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For more information contact Teri Hall
Teri.S.Hall.naf@mail.mil
410-278-3062

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Creative leaders needed in Army aviation

By **C. TODD LOPEZ**
ARNews

In a rapidly changing global security environment, coupled with declining military budgets, the Army needs top-notch aviators trained by creative and experienced commanders who can wring the most out of what little training budget they have, the Army's vice chief of staff said.

"The creativity you apply in training your units will develop the next generation of leaders and shape the future of our Army," Gen. Daniel B. Allyn said. "Training in garrison cannot be viewed as 'routine.' It must replicate the complexity of flying in Iraq or Afghanistan and it is incumbent upon those of you who have flown and fought in these demanding environments for more than 14 years to train-up the next generation of pilots."

Allyn spoke at the start of a day-long series of an aviation-related panel of discussions at the headquarters of the Association of the U.S. Army in Arlington, Virginia, Jan. 14.

Allyn also laid out requirements for aviation modernization that he said were critical to ensuring Army aviation's continued prowess on the battlefield. Among those were increased manned-unmanned teaming, an accurate definition of future vertical-lift requirements, improvements to the power and agility of the current fleet, development of "lethality that pairs precision and discrimination for engagements in complex terrain," and enhancements to survivability through improvements in ability to both detect and defeat new enemy capabilities.

"This is not a wish-list," the general said. "These are must-haves to deliver an aviation force capable of dominating future battlefields."

Maj. Gen. Michael D. Lundy, commanding general of Fort Rucker, Alabama, and the U.S. Army Aviation Center of Excellence, laid out the latest details regarding progress with the Army's Aviation Restructure Initiative. The aim of that initiative is to allow the aviation branch to continue to provide to the Army and the nation the same asymmetric advantage it has had for the last 14 years.

Lundy said the Army has almost



Three OH-58D Kiowa Warriors prepare to leave Fort Rucker, Alabama for the last time at Hanchey Army Airfield, Nov. 18, 2014.
File photo

entirely divested all of its aging OH-58D Kiowa Warrior aircraft. There are only two squadrons left.

"We will finish divestiture here during FY16, minus the 1-17 [Cavalry Regiment (AIR)], which will roll-up and be the last squadron that will operate in [South] Korea. They will do their last deployment," he said.

Also on track is divestiture of training aircraft on Fort Rucker, including the TH-67 Creek and the OH-58 Kiowa. This week for the first time, he said, courses are already underway training new pilots with the new UH-72 Light Utility Helicopter.

Divestiture of UH-60A Black Hawks is behind, however, the general said. "That's an issue." Those Black Hawks, moving out of the National Guard, will be replaced with more modern UH-60Ls, and those will eventually be converted to the UH-60V variant, which features a glass cockpit.

DISRUPTIVE TECHNOLOGY

With programs underway now, the Army is looking to improve an aviator's ability to see in degraded visual environments, to field an improved air-to-ground missile with the Joint

Air to Ground Missile, to provide improved engines in the Black Hawk and AH-64 Apache aircraft through its Improved Turbine Engine Program, and to enhance aircraft survivability.

Those programs, and others Lundy called "disruptive technology," are on track and moving forward, despite earlier concerns.

"A lot of these programs were at risk, or they were just good ideas," Lundy said. "I will tell you that they are all in very good shape right now. And even though they will come slower than we want because of budgetary concerns, all the programs are safe; they are on track; they are in our long-range plans, and they have got great support across the Army staff."

MORE FLYING HOURS

A chief concern for Lundy, he said, is the limited number of hours Army aviators are getting in the cockpit.

"This is an area where I have great concern right now," he said. "Our flying hour program is not what it needs to be."

The general said the Army is taking a "holistic look" at aviation flying hours to find ways to alleviate the problem of

aviators flying fewer hours than what is needed to maintain proficiency.

Lundy also said that every Army operation globally involves an aviation component, and that the operations tempo for aviators is "higher than what we saw, even during the surge, if you look at a mission tempo perspective. We are expecting Army aviation to be out there, to be able to do that. We need to be training at a much higher level to maintain our proficiency, especially as we think about decisive action and combined arms operations."

An in-the-works solution for dealing with the increased operations tempo, Lundy said, is to finally fill the cockpits of equipment in the 11th CAB with Soldiers. That unit has the gear it needs already, but it now needs personnel. That, he said, is a priority for Army aviation.

The "No. 1 priority is to man that CAB," Lundy said. "If we do that, it will help us mitigate some of the tempo issues."

Right now, he said, "demand signal is outpacing our capability to support all of it. We are having to make hard choices."

Army helps meet nutritional needs of Mars astronauts

By **JANE BENSON**
NSRDEC Public Affairs

Traveling to the second smallest planet in the solar system can give you a big appetite, not to mention special nutritional needs.

Researchers in the Combat Feeding Directorate, or CFD, at the Natick Soldier Research, Development and Engineering Center, or NSRDEC, are working on two projects for NASA to help meet the nutritional needs of astronauts at a space station and astronauts traveling to Mars.

NASA contacted CFD researchers for their expertise and provided a grant for a vitamin stabilization project to help ensure the nutritional needs of astronauts are met during potential missions to Mars.

In a separate project, CFD is also working to improve and reduce the weight and volume of a breakfast meal replacement bar, originally developed by NASA, which would also be used during Mars missions and at a space station.

"The work we have done on the vitamin stabilization project then generated NASA's interest in us working on a meal replacement bar for the breakfast meal," said Michelle Richardson, a senior food technologist at CFD.

CFD is uniquely qualified to develop and improve rations for NASA due to its extensive work on military rations, Richardson said.

"The work we do in CFD involves meeting the long storage requirements combined with the nutritional demands for Army rations," said Ann Barrett, a CFD chemical engineer.

"The astronaut and the warfighter are both in austere environments, and they both need to be sustained," Richardson said. "They both need food that has to last for several years."

"They both have stressful as well as physically and cognitively challenging jobs," Barrett said. "So there are a lot of congruencies between CFD and NASA in terms of the objectives for the foods."

Vitamin stabilization

The mission to Mars provides many challenges in vitamin stabilization.

"You can make food that is stable, but vitamins are biological materials that degrade over time," Barrett said. "Especially if there is cosmic radiation;



Photo by David Kamm, NSRDEC

Michelle Richardson, left, and Ann Barrett, researchers in the Combat Feeding Directorate at the Natick Soldier Research, Development and Engineering Center, are working on two projects for NASA to help meet the nutritional needs of astronauts at a space station and astronauts traveling to Mars.

then they are even more susceptible to degradation. Cosmic radiation can damage vitamins and create more of a need for antioxidant vitamins for the astronauts. This could result in malnutrition."

The vitamins need to remain effective and intact during the astronauts' time on Mars, and they also need to remain stable during travel to and from Mars.

"NASA is also interested in stockpiling food there for subsequent missions, which is why they want a five-year shelf life," Barrett said.

CFD has developed a blueberry granola bar and a chocolate hazelnut drink mix to meet these requirements.

"We are looking at different chemical environments in the food to possibly help the vitamins last longer," Barrett said. "So for each item - the bar and the drink - we have a low-fat version and a higher fat version. The vitamins that NASA is interested in are A, B1 [Thiamine], B9 [Folic Acid], Vitamin C and Vitamin E.

"The vitamins are encapsulated. We are also looking at the fat level. We have a lipid-based encapsulate and a starch-based encapsulate."

Both the starch-coated vitamins and the lipid-coated vitamins were placed into low- and high-fat versions of the bar

and the drink to see which combination results in the best vitamin preservation.

"We did preliminary testing and decided which versions were to be used in a five-year storage study," Barrett said. "We settled on the fat-encapsulated vitamins to be placed in the lower fat foods. And the starch-encapsulated vitamins were placed in the higher fat foods."

As part of the effort for NASA, Danielle Froio, a materials engineer at CFD, is also investigating the effects of processing techniques and packaging materials on vitamin stability in the selected low- and high-fat foods.

Raising the breakfast bar

CFD is working on a breakfast bar as a meal replacement to be used at a space station and possibly during a Mars mission. NASA developed the bar, and Natick is working on refining it.

"NASA is interested in a 10-percent weight reduction, and they achieved that through the bar, but they didn't have the capability to refine it," Froio said. "Natick is investigating two ways to reduce weight and volume. One is a conventional compression method, which uses high pressure.

"The other is a novel technology called sonic agglomeration that basical-

ly uses sonic waves to compress the bar and make the ingredients stick together. So, we are looking at those two technologies."

The resulting breakfast bar will be lighter weight and take up less volume, which is critical in space travel. The bars meet all the nutrient requirements for space flight and will be available in three flavors - barbecue nut, jalapeno nut and banana nut.

"The bar also needs to last for five years and taste good," Richardson said. "NASA is going to do shelf-life testing, sensory testing and nutrient testing. They are also going to do human exploration research analogs.

"An analog is actually an environment that mimics space. The bars will be tested by people in that simulated environment."

Mission critical nutrition

Proper nutrition and vitamin stability are critical to the success of any space mission.

"Vitamins help with immunity," Richardson said. "It's also important that the astronauts don't lose muscle mass and bone density, which they are more prone to in a gravity-free environment."

"Antioxidants also help with neural function," Barrett said.

"Vitamins do a lot for the body," Richardson said. "So, without them on a five-year space mission, they would not be able to do their job and they would not be healthy."

"We've done other things for NASA in the past," Barrett said. "It's a long collaboration. I think the possibility of exploring Mars is a very exciting thing."

"It's great that we can assist with the sustainment of that mission," Richardson said. "If they are not properly nourished, that is going to have a huge impact."

The U.S. Army Natick Soldier Research, Development and Engineering Center is part of the U.S. Army Research, Development and Engineering Command, which has the mission to ensure decisive overmatch for unified land operations to empower the Army, the joint warfighter and our nation. RDECOM is a major subordinate command of the U.S. Army Materiel Command.

Army Press gets Soldiers’ thoughts, ideas published, help with process

By **DAVID VERGUN**
ARNEWS

Soldiers are always coming up with a lot of really great ideas. The best way to share those ideas is to publish them, said Dr. Donald P. Wright, deputy director of Army Press.

If the process of getting published sounds daunting to someone who is not a writer by vocation, fear not, he said. Army Press will assist.

ABOUT ARMY PRESS

The relatively new Army Press stood up in August. Army Press combines the staff of the journal Military Review, or MR, with Combat Studies Institute, or CSI, the book publishing side. In October, Army Press Online, or APO, stood up and joined them.

Wright said that the plan for later this year is for the NCO Journal - out of Fort Bliss, Texas - to physically move to Fort Leavenworth and join Army Press in a building located next to the Command and General Staff College, or CGSC.

A final element of Army Press is a bit different than the rest, Wright noted. A special team from Army Press produces online iBooks about mission command used in wars throughout history, virtual battlefield tours of Iraq and Afghanistan and other topics. These books are interactive and multimedia, working off the iPad platform. “Young Soldiers love them,” he said. (Some examples are showcased in the links section.)

UNDER ONE UMBRELLA

The significance of these mergers is to get Soldiers published in an expedited manner and, just as importantly, to get their work published in the most relevant venue, Wright said.

Previously, Soldiers would submit their manuscripts in a stovepipe fashion, he said, for instance, to one of the branch journals like Armor, Infantry, Fires, or Army Sustainment. Or, they might submit to MR or CSI.

However, a manuscript dealing with logisticians, for example, might actually have a broader appeal to a larger Army audience rather than a niche readership. This is where the editors at Army Press step in to assist, he said.

The editors review the manuscript and they determine where it will have the most impact, he said. That saves a lot of time for the writers and their works get showcased in the best possible venue.

Here’s how to start the process:

Soldiers, and even civilians, can log onto the main portal of the Army Press website: <http://armypress.dodlive.mil/>. No common access card is needed. From there, the site gets the Soldier started with the process.

THE GOOD PART

For someone who hasn’t yet been published, there are other benefits of going through Army Press that are enormous, Wright said.

Once a Soldier submits his or her manuscript to Army Press, there’s person-to-person contact between an editor and that writer, he said. “We provide feedback to the author. There’s a back and forth with them. We tell them what’s good, what needs to be revised and so on.”

Not only that, the article gets reviewed by “multiple sets of eyes,” he said. The topic is matched with the right subject-matter expert, many of whom are located right at Fort Leavenworth.

The rigorous review process ensures the quality of the manuscript will be top-notch, he added.

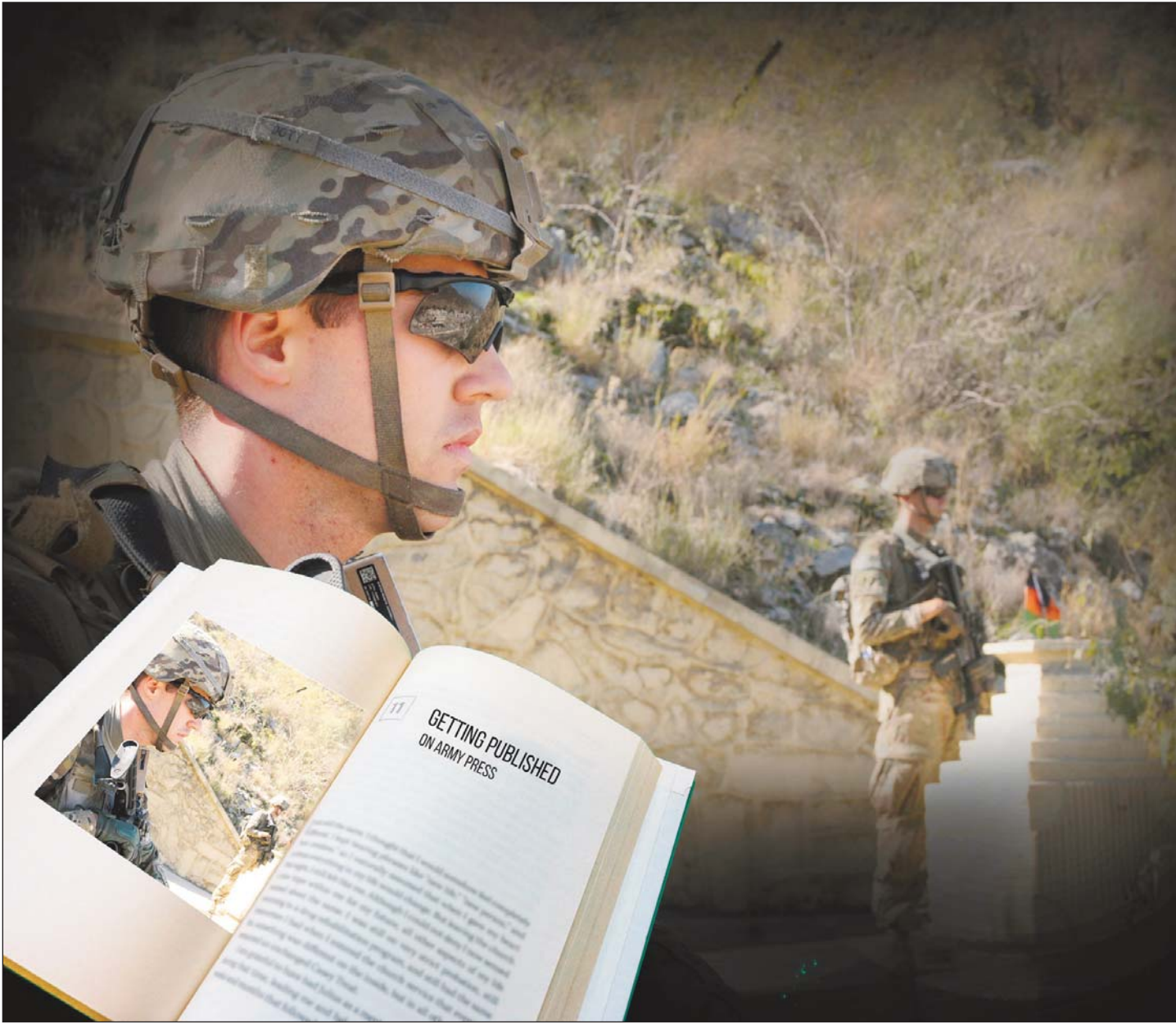


Photo by Peggy Frierson

The best way for Soldiers to share experiences is to publish them, says the deputy director of the new Army Press, which has combined staffs of the Military Review journal with the Combat Studies Institute, online publishing and a new iBooks team.

SOME EXAMPLES

To illustrate how the process works, Wright provided some current examples.

A major attending CGSC recently submitted her master’s degree thesis to Army Press. It deals with the German judiciary system during the Nazi regime leading up to World War II. “It’s not exactly military, it’s not tactics, it’s not on the battlefield, but it is military-related and there are people who are interested in this particular subject,” he pointed out, adding that the author isn’t even in the legal profession, but her work is outstanding.

Of course, a manuscript relating directly to U.S. Army operations will be of more interest to the larger Army audience, he said, but that shouldn’t stop someone from submitting something that’s tangentially related.

Another case:

Another officer wrote a memoir about his time in Iraq and Afghanistan, and coming home and dealing with the challenges of the transition, Wright said.

The Soldier said he wanted to get published outside the government, “So we’re looking to connect him with a private press,” Wright said, since the manuscript has broad appeal.

“We can help with that too. We have connections outside the U.S. government. It’s an example of how far we can look.”

“He emailed me today and said ‘I may want to go with Army Press. I want this to be for Soldiers.’ So we’re in discussions about that,” Wright continued.

Another example:

A former battalion commander had a manuscript about World War II he’d written, “And we’ve been working with him on and off for probably 18 months, helping him refine it while he com-

manded a battalion,” Wright said. “It’s ready to go now and will be going into our editorial queue soon.”

That manuscript will become a CSI-published book about how Army corps commanders dealt with the need for tactical flexibility and how they reorganized and moved divisions around from Normandy to Berlin during World War II, he said.

“No one’s really written on this. We helped him; we read it, gave him comments, he’s been reacting to them. We do email, phone calls, we continue working with him,” Wright said.

Another example regards someone Army Press will not be assisting.

This individual wanted to get published, but was already working with a literary agent. “In that case, we can’t help him because we can’t be involved directly with agents,” Wright explained. “He didn’t know how marketable the manuscript was and still doesn’t. I wrote back and said I can’t work with you if you’re working with a literary agent. We’ll consider publishing it if it doesn’t work out for you.”

It should be pointed out monetary transactions are not made between authors and Army Press. For those looking to make money, Wright encourages them to look elsewhere.

But the benefits of being published by Army Press are still substantial: professional development, helping advance the profession of arms by sharing thoughtful insights and discussions. Being published also can advance Soldiers’ careers, he added. And the Army Press connects authors with a military audience, something that many writers seek.

SPEED OF PUBLISHING

Getting published can take a few

weeks to a year; it all depends on the venue, Wright said.

Many quarterly journals are so booked up that an article may not get published for a year, he said. On top of that, there’s a rigorous review process that ensures a high level of quality.

“I had a recent conversation with a very smart field-grade officer, who was maybe 32 or 33 years old. He expressed a lot of angst that the Army can’t publish his article in three or four weeks. He wants it out now,” Wright said. “He’s from a younger generation. They’re used to quickly publishing something on the web.”

Wright said Army Press is working on getting things published more quickly, “but we don’t want to shortchange the review process,” he added.


Since APO stood up, that venue can get something published much sooner, particularly for a short manuscript like something that’s a page long, Wright said. That really has opened the window of opportunity for Soldiers to get short pieces out quickly.

PROGRESS REPORT

Army Press has only been around for a few months, so it’s a bit early to measure results, Wright said, adding that he hopes the benefits of going through Army Press will spread by word of mouth from satisfied writers and readers.

“If you measure [success] by [manuscripts] coming in, it’s definitely on the increase,” he said. “It’s not exploding, but that’s okay; the whole idea behind Army Press is to provide a more active place for Soldiers to go who want to publish.”

“We want Soldiers to add to the professional discourse, the professional discussion. We do that through writing.”



Have a great idea for a story?

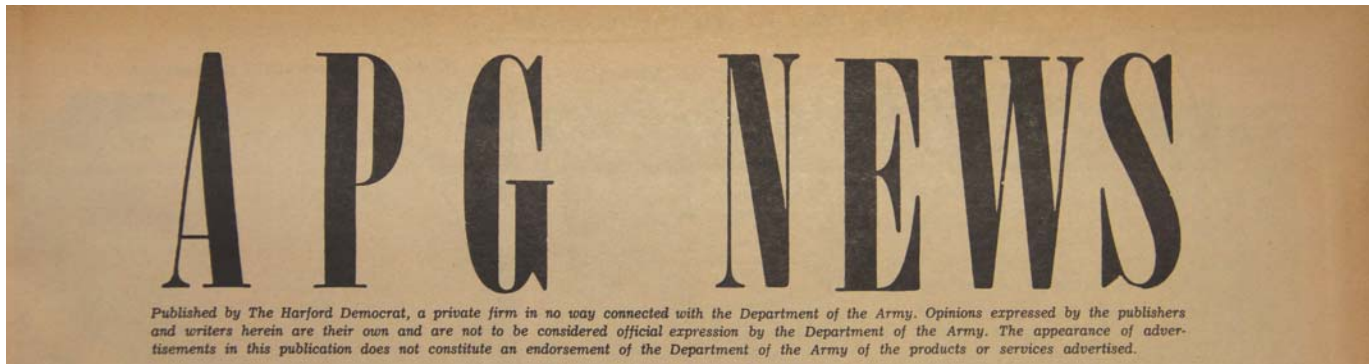
Know about any interesting upcoming events?

Wish you saw more of your organization in the paper?

The APG News accepts story ideas and content you think the APG community should know about.

- Story ideas or content must be geared toward the greater APG community and cannot appear to endorse any private company.
- The deadline for content to appear in an upcoming issue of the APG News is the **Thursday PRIOR** to publication. The APG News cannot guarantee submissions received after the Thursday prior to publication will appear in the next issue of the paper.
- Send story ideas or pre-written content to amanda.r.rominiecki.civ@mail.mil or call 410-278-7274 for more information.
- Please note, the APG News editor reserves the right to (1) reject any content deemed inappropriate, irrelevant or against regulation, (2) delay the publication of submitted material if it is not timely and (3) edit or shorten content for space and style reasons without altering the meaning of the submission.

THIS WEEK IN APG HISTORY



Take a look back in time as the APG News explores what made the headlines around APG during this week 10, 25 and 50 years ago. This week's APG News masthead is from 1965.

By **YVONNE JOHNSON**, *APG News*

2015
2010
2000
1990
1980
1970
1960
1950

10 Years Ago: Jan. 19, 2006



(Left) Newly-promoted Brig. Gen. Kevin R. Wendel, commander of the 20th Support Command (CBRNE) left, stands at attention during his promotion ceremony as Command Sgt. Maj. Marvin W. Womack Sr. unfurls his flag.



(Right) Ginger Neal, the commander's secretary for Kirk U.S. Army Health Clinic, has blood withdrawn by Trinidad Basilio, a medical technician with the Armed Services Blood Bank Center during a blood drive at the post chapel.

25 Years Ago: Jan. 23, 1991



(Left) Kenneth Williams gets his ears checked by Warrant Officer Samuel Mintz a physician's assistant and Army Reservist sent to bolster the staff at Kirk U.S. Army Health Clinic during Operation Desert Storm.



(Right) Spc. Joseph Wilt, a military policeman with the 523rd Military Police Company inspects Annette Noe's vehicle at the APG main gate after post security was upgraded due to an increase in hostilities as Operation Desert Shield evolved into Desert Storm.

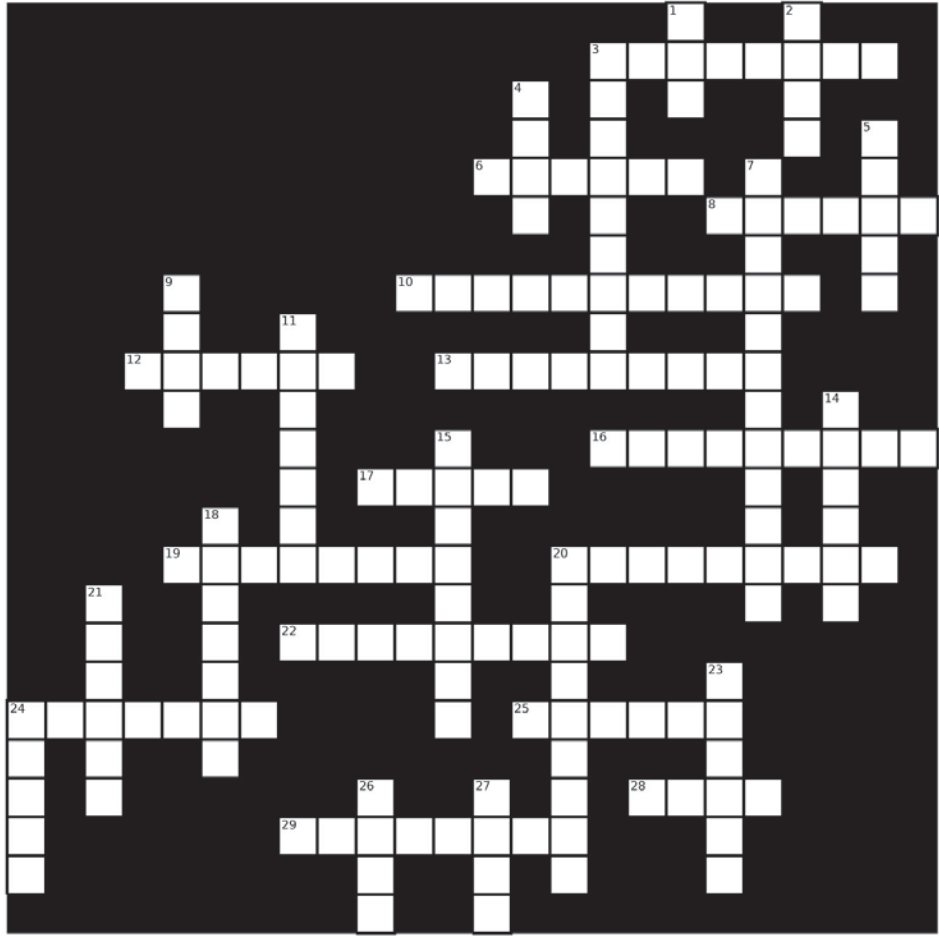
50 Years Ago: Jan. 20, 1966

(Below) From left, Sgt. 1st Class Larry Britton of Headquarters and Headquarters Company, APG, discussed the benefits of credit union membership with Mrs. Frank B. Ansalvish, treasurer, as Lt. Col. William R. Doss, post finance and accounting officer, looks on during a membership drive.



(Right) John R. Topping, a fixed wing pilot at Phillips Army Air Field, left, holds up the number one after being the first person to be sworn after the 83rd anniversary of the federal civil service. Mrs. Russell Wilbar, a placement officer in the Civilian Personnel Division, right, welcomed Topping.





The APG Crossword

Winter Sports

By **RACHEL PONDER**, *APG News*

For many, winter means skiing and snowboarding. Test your knowledge about these popular sports with this trivia puzzle. Let it snow!

Across

- 3. Original term for snowboarding.
- 6. A slang term for a ski lift operator.
- 8. Fresh, dry snow sought after by skiers and snowboarders for its lightness.
- 10. Any area outside of resort boundaries that is not patrolled or cleared of avalanche dangers; for experts only.
- 12. A ski race down a winding course marked by flags or

poles.

- 13. A style of skiing or snowboarding focused on tricks, jumps and aerals.
- 16. A close-fitting garment covering the whole head and neck except for parts of the face.
- 17. This American snowboarding and skateboarder is a two-time Olympic gold medalist, holds the X-Games record for gold medals and highest overall medal count, and has won 10 ESPY Awards.

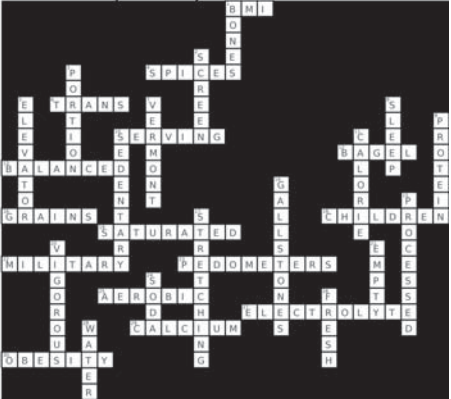
- 19. Mashed _____ is a slang term for wet, heavy snow.
- 20. To make a fast, straight downhill run on skis or a snowboard.
- 22. Ski resort located in Mercersburg, Pennsylvania.
- 24. A _____ run is a ski run that has been smoothed over by a machine for more consistent skiing.
- 25. Slang term for a skier or a snowboarder flying down the slopes in an out of control fashion.
- 28. The _____ Resort is Maryland’s only four season ski resort.
- 29. The 1975 movie, “The Other Side of the _____” is based on the true story of ski racing champion Jill Kinmont.
- 11. An enclosed lift that is supported and propelled by cables from above that can transport four to eight passengers up a hill.
- 14. The 1998 Winter Olympics in _____ Japan were the first games to include snowboarding.
- 15. The recorded origins of ski jumping can be traced to this Norwegian town.
- 18. Protective eyewear for skiers and snow boarders.
- 20. A winter sport in which a person on skis is pulled by a horse, a dog or a motor vehicle.
- 21. This Norwegian athlete is the most-decorated Olympic alpine skier with eight medals.
- 23. In 1948, she became the first American to win an Olympic gold medal in skiing.

Down

- 1. A White _____ occurs when visibility drops to almost nothing caused by heavy snowfall, fog, or a combination of the two.
- 2. In the 1985 movie “A View to A _____” Roger Moore, as James Bond, was featured snowboarding during the opening sequence. It’s said that the sequence helped popularize the sport.
- 3. Term used to classify ski and snowboard apparel and accessories, including jackets, gloves and hats.
- 4. The back end of a ski.
- 5. The hard plastic outer portion of a ski boot.
- 7. A snowboarding competition in which four to six snowboarders race down a course.
- 9. A wind _____ is a state in which ski lifts must stop running due to dangerously high winds.

Think you solved last week’s puzzle?
Check out the solution below

Solution to the January 14 puzzle



WORD OF THE WEEK

Palindrome

Pronounced: PAL-in-drohm

Part of Speech: Noun

Definition

- 1.1. A word, line, verse, number, phrase or sentence that reads the same backwards as forwards. As in: ‘Madam, I’m Adam,’ or ‘Poor Dan is in a droop.’
- 2.2. (In biochemistry) A region of DNA in which the sequence of nucleotides is identical with an inverted sequence in the complementary strand: GAATTC is a palindrome of CTTAAG.

Phrases

“A man, a plan, a canal, Panama!;” “Amor, Roma;” “Race car;” “Stack cats;” “Step on no pets;” “Taco cat;” “Put it up;” “Was it a car or a cat I saw?;” “No ‘x’ in Nixon”

Words

madam; nurses run; pop; radar; deed; mom; dad; noon; eye; kayak; racecar; sexes; tenet; level; civic

By **YVONNE JOHNSON**, *APG News*
Source(s): <http://www.oxforddictionaries.com>
<http://dictionary.reference.com>

ACRONYM OF THE WEEK

USTRANSCOM

United States Transportation Command

The United States Transportation Command (USTRANSCOM) provides air, land and sea transportation for the Department of Defense in times of peace and during war.

Located at Scott Air Force Base Illinois, USTRANSCOM, is the single manager of America’s global defense transportation system. USTRANSCOM is tasked with the coordination of people and transportation assets to allow the US to project and sustain forces, whenever, wherever, and for as long as they are needed. The commander of USTRANSCOM is Gen. Darren W. McDew, former head of the Air Mobility Command.

USTRANSCOM coordinates missions worldwide using military and commercial transportation resources. It is composed of three service component commands: The Air Force Air Mobility Command (AMC); the Navy Military Sealift Command (MSC); and the Army Surface Deployment and Distribution Command (SDDC) as well as the Joint Enabling Capabilities Command (JECC).

By **YVONNE JOHNSON**, *APG News*
Source(s): <https://en.wikipedia.org>; <http://www.ustranscom.mil>

APG CATCH-A-POACHER PROGRAM

A wide variety of wildlife call Aberdeen Proving Ground home. The APG Conservation Law Enforcement Branch is asking you to be a partner in protecting and preserving the natural resources here on post. If you see or have knowledge of poaching or illegal activity involving wildlife or natural resources, you can use the SUBMIT-A-TIP hotline to anonymously provide information to catch a poacher.

Call the SUBMIT-A-TIP “HOTLINE” at 410-306-4673.

Emergencies or violations in progress should always be reported via 911.

When reporting poaching or illegal activity involving wildlife or natural resources on APG, please take note of the information listed in the form below.

Name/Description/Address of the Poacher
Location/Days/Times & Type of Poaching
Vehicle/Vessel Description or Registration #

You can also cut out this completed SUBMIT-A-TIP form and mail it to: 2200 Aberdeen Blvd. APG, MD 21005

Observance sparks reflections on King legacy

Continued from Page 1

tronics Command (CECOM) Maj. Gen. Bruce T. Crawford, served as the keynote speaker. He called the slain civil rights leader a “great American.”

“It says a lot that we are gathered here today, almost 50 years after he was assassinated to reflect on the true meaning of his enduring legacy,” Crawford said. “Again, this is a man that held no title, yet stirred our conscious and ignited our passion when he challenged the world to dream.”

Crawford asked the audience to apply King’s legacy to their lives.

“He awakened our conscious and inspired Americans to think beyond themselves,” he said. “To look past their differences. A staunch believer in non-violence, he understood that the roar of the well-meaning collective voice overshadowed the shout of a lone man with evil intentions.”

Crawford said “The Drum Major Instinct” speech King delivered Feb. 4, 1968 at the Ebenezer Baptist Church in Atlanta, Georgia is his favorite speech. He said the “drum major instinct” is the instinct to be out front, to be a leader. During this sermon King encouraged listeners to be ‘a drum major for justice.’

“It is about personal responsibility,” Crawford said. “About not being afraid to step forward.”

He said MLK Day is about service, a call to action to help “our fellow man.”

“When you think about his legacy, give it another look,” Crawford said. “Think a little bit deeper about those things that we hold true as Soldiers today, those things we hold sacred as Americans today.”

Program highlights included two educational video clips. The first was about the Martin Luther King Jr. Memorial, located in Washington D.C., near the National Mall. The memorial was dedicated Aug. 28, 2011, the anniversary of the “March on Washington” and King’s famous “I Have a Dream” speech. King is the first African-American with a memorial on or near the National Mall, and only the fourth non-president to receive this honor.

The second clip gave an overview of “I’ve Been to the Mountain Top,” a sermon King delivered in Memphis, Ten-



APG Senior Commander Maj. Gen. Bruce T. Crawford delivers the keynote speech during the Martin Luther King Jr. Day observance at the Myer Auditorium Jan. 13.

Photo by Sean Kief

nessee, April 3, 1968, his final speech before his death.

Musical performances were presented by Rachel Acevedo of the U.S. Army Research, Development and Engineering Command, who sang the national anthem, and Darcel Thomas, of the APG Garrison Headquarters and Headquarters Company, who sang “We Have Come This Far by Faith.” Chaplain Lt. Col. Bart Herndon, of the 20th CBRNE Command gave the invocation.

Crawford, Davis, APG Garrison Command Sgt. Maj. Jeffrey O. Adams and Pfc. Rahkeem Turner, Alpha Battery, 3rd Air Defense Artillery – the organization’s youngest Soldier – participated

in a cake-cutting ceremony at the program’s conclusion.

Anthony Dorsey, of the Garrison’s Directorate of Plans, Training, Mobilization and Security, who co-organized the event with Rodney Shelby of DPTMS, said they wanted the event to be educational and entertaining.

“We wanted to focus on aspects of King’s life that people might not know,” Dorsey said.

Shelby said the event was a combination of a history lesson and a time for reflection.

“It is about reminiscing to a certain degree, of where you were during these particular times,” he said.

Lt. Col. Terry Rodesky, of the U.S. Army Test and Evaluation Command’s (ATEC) Army Evaluation Center, called the program an “eye-opening experience.”

“It really broadened by perspective about Dr. Martin Luther King Jr.’s life and his legacy,” he said.

Richard Harris Jr., a contractor with the CECOM Office of Small Business Programs said King stood for freedom.

“I believe he made a significant contribution to our country; he allowed us to express the fullness of our freedom, together,” he said. “He played a great part in the freedom of how we are allowed to live together today.”

First lady seats women, veterans, civilians

Continued from Page 1

she knew she wanted to go to the school.

“I’ve worked out. I took a weight-lifting class in high school. I’ve always enjoyed physical challenges,” she said. “I’ve always been interested in tactics. One of the reasons I love being an engineer[ing] officer is because part of our job is to build the battles pace for the tip of the spear. So my preparation for Ranger School started well before the concept of Ranger School came into my mind.”

When she learned from a first sergeant that the course had opened up to women, she said, she knew she wanted to attend. Her husband, a Marine Corps officer, agreed.

“The very first response my husband had was ‘you were made to do this, Lisa.’”

Last year, the defense secretary announced that all military jobs across all services would be opened to women. That’s something Jaster said she hadn’t believed would ever happen during her time in uniform. But had those options been open to her when she was enrolled at West Point, before she got her commission, she said she thinks not much would have changed for her. She’d still want to be the engineering officer she is today, she said.

“In all honesty, I love being an engineer[ing] officer,” she said. “But I definitely would have gone to all the cool schools. That was just my personality back then, and 16 years later, it hasn’t changed. I definitely would have tried to go to all the schools. And while on active duty, I would have tried to get company command of a Sapper unit, which is now open to women, but wasn’t back then. And I would have tried to be in more forward units than were allowed.”

Another ground-breaker

West Point graduate - and as of Jan 5,

the first female commandant of cadets at the academy - Brig. Gen. Diana Holland, also attended the State of the Union address as a guest of U.S. Rep. Elise Stefanik of New York. She said the event was quite memorable.

“I had the opportunity to meet a number of representatives and their guests, including two Wounded Warriors undergoing treatment at Walter Reed [National Military Medical Center],” Holland said. “The entire evening was a once-in-a-lifetime experience I will never forget.”

With new opportunities for women opening in the Army, Holland said she is excited for female Soldiers now having more choices in how they serve - but for herself she said she wouldn’t have done anything different.

“There have certainly been a number of exciting changes in policy this year that officially allow women to serve in all specialties,” Holland said. “It marks the last step in an integration process that has been ongoing for as long as I’ve been in the Army. I wouldn’t change anything about my career. The Army and the Engineer Regiment have been good to me and provided me with wonderful experiences along the way. With the changes in policy, many more women will have the same or more opportunities.”

Holland assumed the role of commandant of West Point Jan. 5. Since accepting the burden of responsibility for the military, physical, character and social development of more than 4,400 cadets at the school, she said, things have started off smoothly - and she’s been glad to get

back into the groove at her alma mater.

“My first week back at West Point has been everything I expected and more,” she said. “It has been fun to re-acquaint myself with the institution, the talented staff and faculty, and most importantly, get to know the current Corps of Cadets. As always, the cadets are impressive and inspiring. It doesn’t get any better than this.”

Veteran Soldiers

Sitting with Jaster in the first lady’s box at the State of the Union were three other Army veterans: Naveed Shah, Earl Smith, and Oscar Vazquez.

Shah, who was born in Saudi Arabia, came to the United States as a boy. He was just 13 when the 9/11 terrorist attacks took place and said the experience drove him to serve his new country.

“Their fear stuck with me and made me feel like joining the Army was something that would allow me to give back to a country that has given me so many opportunities,” Shah said. Shah enlisted in the U.S. Army in 2006 and was assigned to 1st Brigade, 2nd Infantry as a public affairs specialist. He later deployed to Iraq in 2009 with the 13th Sustainment Command out of Fort Hood, Texas. Operating out of Joint Base Balad, Shah traveled the country and remembers seeing how the country was changing, especially on Iraq’s Election Day.

“I remember we were pulling security and there were reports of violence all over, but the lines were still full. That made me never want to take voting for

granted gain,” Shah said.

Shah left active duty in 2010 and had a rough time transitioning. Ultimately, he joined the U.S. Army Reserve and recently finished his commitment in 2015.

Today, Shah is a real estate agent, and is using his GI Bill to work toward a finance degree. While he’s actually been to the White house twice before - during one visit he met the president and vice president - he said he was still honored to have been invited to sit with the first lady during the State of the Union.

“I didn’t believe it,” he said. “I was floored.”

Army veteran Earl Smith also sat in the first lady’s box during the address. He said he met the president back in 2008 when the president was a senator on the campaign trail.

At the time, Smith was director of security at a hotel in Texas where he met then-candidate Obama in an elevator. He passed on to the would-be president a cherished memento of his time in uniform: a patch from the 101st Airborne Division. Obama initially didn’t want to accept the patch, though he eventually relented and put the patch in his pocket.

Smith said he told Obama that he could look at the patches and “remember that we are America, and this is what we are about. We are about service and sacrifice, and that we are all in this together.”

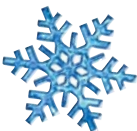
The president carried the patch with him for the remainder of his campaign. It will be placed in the presidential library after Obama leaves office.

Attending Obama’s final State of the Union is something Smith said “means the world to me.”

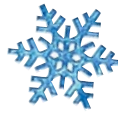
Army veteran Oscar Vasquez, who served from 2010 - 2014, including a tour in Afghanistan, also sat with the first lady. Vasquez is now an advocate for science-technology-engineering-mathematics, or STEM, education for under-served youth.

The entire evening was a once-in-a-lifetime experience I will never forget.

Brig. Gen. Diana Holland
Commandant, USMA at West Point



Winter is coming



Do you know where to go for winter weather updates?



Like APG on Facebook: www.facebook.com/APGMD



Solutions could reap Army-wide benefits

Continued from Page 1

ty, is \$56 million the Army is not spending on something else,” she said, adding the money saved on utilities could go toward areas of military research and development.

APG’s energy program is part of the Army Net Zero pilot program, an energy-conserving initiative launched in 2011 with the goal of finding ways the Army can use only as much energy as it creates by the year 2020.

The program was developed by Katherine Hammack, assistant secretary of the Army for Installations, Energy and Environment, and is focused on reducing waste, water and energy consumption on all military installations.

“It’s a very lofty goal, but she (Hammack) is interested in sustainability from an environmental sense and she’s tailoring it to the Army because the Army is interested in installation sustainability,” Rock said.

She added while APG was specifically tasked with finding ways to become Net Zero in water, the other two areas of consumption- energy and waste- are also targeted for reduction. All three tracks – Energy, Water and Waste – are part of the vision.

“The idea is that each installation would be Net Zero in one capacity or possibly all capacities, so that an installation could put up solar panels or wind turbines and generate a renewable form of energy, equivalent to what the installation used for the year,” Rock said.

“Net Zero water is the installation getting all its water from one source and returning all its water to the same

source. The idea is that you’re taking a quantity of water, using it, and returning the water of the same quality and quantity that you received.”

Other military installations participating in the Net Zero water pilot program include Camp Rilea Heliport, Oregon; Fort Buchanan, Puerto Rico; Fort Riley, Kansas; Joint Base Lewis-McChord, Washington and Tobyhanna Army Depot, Pennsylvania. Rock said APG collaborates with these installations to share energy projects and discuss what works well and what still needs improvement.

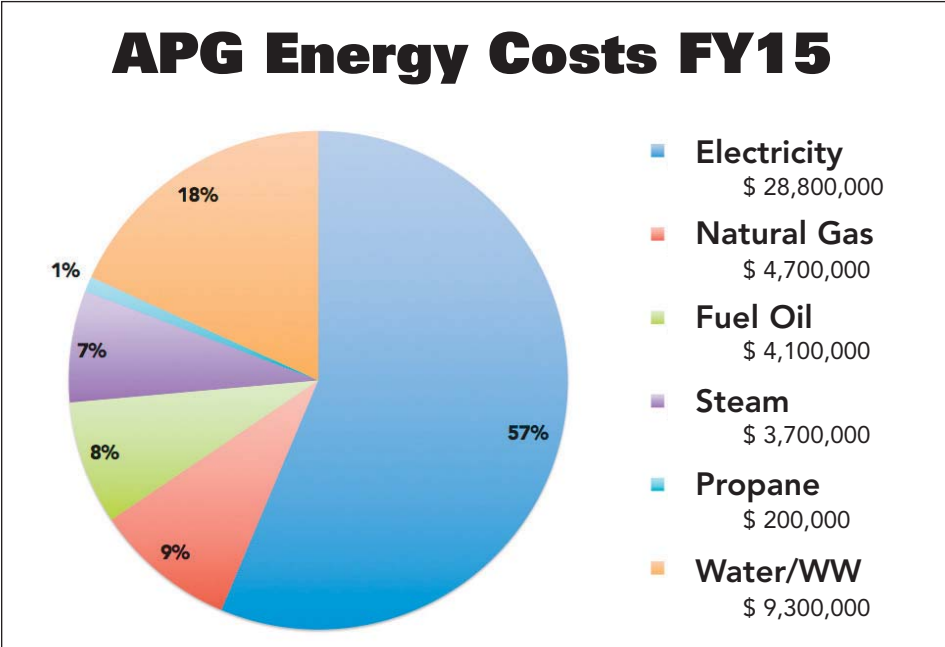
“You’re sharing your experience trying to implement Net Zero with other installations so that they can pick it up and do their own projects that make sense for them,” she said.

Creating injection wells, harvesting rainwater and reusing potable water are some water retention methods Rock said could help make APG Net Zero water.

“If you have ground source wells under APG and a water treatment plant on APG, and you’re getting all your water and returning the water within the same water shed, you can be Net Zero water no matter how much water you’re actually using,” she said.

Rock conceded that part of the reason APG’S energy program is lagging is because it’s difficult to implement “a behavioral change for 20,000 people,” but said she is hopeful the Jan. 29 meeting will spur large-scale energy reduction and cost-cutting ideas that will implement installation-wide changes for the coming fiscal year.

“I’m going to dig into the Army



metering program, why they’re metering [and] what we’re trying to do with it,” Rock said. “I’m going to ask them [leaders] how they think they should incentivize the workforce,” she said.

According to Rock, part of the impetus for Net Zero comes from the need for creative solutions to energy problems in the field.

She said energy solutions can make a world of difference for Soldiers overseas, especially to those convoying supplies.

“They’re at their most vulnerable when they’re out driving around,” Rock said. “So having a portable waste-to-energy device, where you just drop in your bag of garbage and burn it and create some electricity with it, would

potentially save lives,” she said. “The Army is interested in trying things at the installation level that are ultimately transferrable to other parts of the Army,” Rock said.

“If you think of a forward operating base some place in Afghanistan or Iraq, energy, waste and water are big logistical problems. So if you have a technology that allows you to generate the energy you need on post, or if you have a technology that allows you to burn your waste and turn it into energy, you’re solving a logistical problem of waste management.”

For more information, contact Rock at 410-306-1125, or devon.a.rock.civ@mail.mil.

Research seeks to unmask malware authors

Continued from Page 1

the 32nd Chaos Computer Conference looked at samples from 1,600 coders and, with 94 percent accuracy, could determine the author of a particular code excerpt. In a “top five suspects” match, the precision was near perfect.

The research also examined executable binary authorship attribution from the standpoint of machine learning, using a novel set of features that include ones obtained by decompiling the executable binary to source code, showing that many features in source code could be extracted from decompiled executable binary, according to their recent paper, When coding style survives compilation: De-anonymizing programmers from executable binaries.

The team including Caliskan-Islam, a Princeton University post-doctoral candidate who started working on the project as a graduate student; Fabian Yamaguchi, from the University of Gottingen; and Edwin Dauber from Drexel University, is trying to address the problem of identifying the author of malicious code and software.

“Currently, human analysis is the common tool. It works, but it can be slow and take a lot of resources. We are developing a toolkit to make it a lot faster and cheaper to support analysts in identifying bad actors.”

Richard Harang

ARL network security researcher and technical lead

The next step in this fundamental research will be to extend the current result to more flexible working conditions.

“Attribution is a real challenge [as opposed to detection], as it is done manually by experts who have to reconcile forensics following an attack,” Harang said. “Currently, human analysis is the common tool. It works, but it can be slow and take a lot of resources. We are developing a toolkit to make it a lot faster and cheaper to support analysts in identifying bad actors.”

A limitation is that success is depen-

dent upon having existing samples from potential authors. Another challenge for the future is to consider the tricks used by malware authors to heavily obfuscate, or mask, the software, as well as to extend the experiments to code written by multiple authors.

The goal for ARL is to develop basic and applied science and tools to defend Army networks, said Jerry Clarke, chief of ARL’s Network Security Branch.

This is fast-moving research and the study is making strides, Harang said.

They have demonstrated that authorship attribution can be performed on

real-world code found “in the wild” by performing attribution on single-author GitHub repositories, according to the findings.

“This basic research shows that identifying authors of computer programs based on coding style is possible and worth pursuing,” Harang said. “This is collaborative research that builds upon a lot of good work before us.”

Professor Rachel Greenstadt at Drexel has been very active in this research, as well as contributions from Professor Arvind Narayanan at Princeton and Professor Konrad Rieck from the University of Gottingen.

“We have a novel technique that moves the ball forward. But there is work to be done.”

The U.S. Army Research Laboratory is part of the U.S. Army Research, Development and Engineering Command, which has the mission to ensure decisive overmatch for unified land operations to empower the Army, the joint warfighter and our nation. RDECOM is a major subordinate command of the U.S. Army Materiel Command.

Exchange giving away \$3,000 in gift cards during Pandemonium Sweepstakes

Military shoppers can start off the New Year with extra spending money thanks to the Army & Air Force Exchange Service’s latest contest. During the Pandemonium sweepstakes, six shoppers will win a \$500 Exchange gift card. Through Jan. 25, shoppers can enter at www.shopmyexchange.com/sweepstakes.

“For six lucky shoppers, winning a \$500 gift card will be a great kick off to 2016,” said Air Force Chief Master Sgt. Sean Applegate, Exchange senior enlisted advisor. “Extra spending money is always good to have around after the rush of the holidays.”

The Pandemonium sweepstakes drawing will take place on or about Jan. 26. No purchase is necessary to enter or win.



Did You Know ?

The USS Nautilus (SSN-571), the world’s first operational nuclear-powered submarine, was christened Jan. 21, 1954 and launched into the Thames River by Mamie Eisenhower.

The Nautilus was the first submarine to complete a submerged transit of the North Pole on Aug. 3, 1958. Sharing names with Captain Nemo’s fictional submarine in Jules Verne’s “Twenty Thousand Leagues Under the Sea,” and named after another USS Nautilus (SS-168) that served with distinction in World War II, Nautilus was authorized in 1951 and launched in 1954. Because her nuclear propulsion allowed her to remain submerged far longer than diesel-electric submarines, she broke many records in her first years of operation, and traveled to locations previously beyond the limits of submarines. In operation, she revealed a number of limitations in her design and construction and this information was used to improve subsequent submarines.

Nautilus was powered by the Submarine Thermal Reactor (STR), later re-named the S2W reactor, a pressurized water reactor. Nuclear power had the crucial advantage in submarine propulsion because it is a zero-emission process that consumes no air. This design is the basis for nearly all of the US nuclear-powered submarine and surface combat ships, and was adapted by other countries for naval nuclear propulsion.

Nautilus was decommissioned in 1980 and designated a National Historic Landmark in 1982. The submarine has been preserved as a submarine museum in Groton, Connecticut, where the vessel receives some 250,000 visitors a year.

By **YVONNE JOHNSON**, APG News
Source(s): <https://en.wikipedia.org>



Courtesy photo
The USS Nautilus permanently docked at the U.S. Submarine Force Museum and Library in Groton, Connecticut.

APG Snapshot

Take a peek at the events making news in and around Aberdeen Proving Ground. For complete photo coverage, visit <http://www.flickr.com/photos/usagapg/>.

FUSING CORE STRENGTH

(Clockwise from top) Personal and group trainer Pete Johnson, a contractor from Body Spirit, leads a Cardio/ Core Fusion class through warm ups in the APG North (Aberdeen) Athletic Center Jan. 19.

AMSAA civilian Sylvia Nguyen and fellow exercisers stretch through the cool down phase at the end of the Cardio/ Core Fusion class.

From front, APG civilians Carrie Kelley, Tiffany Jordon and Denise Jordan, reach up for core exercise strength.

Photos by Molly Blossie



OBSERVANCE DISPLAY HIGHLIGHTS LIFE OF MLK



Members of the APG community celebrated the life and legacy of Dr. Martin Luther King Jr. during the annual observance at the Myer Auditorium Jan.13.

(Left) Lt. Col. Terry Rodesky, of the U.S. Army Test and Evaluation Command's (ATEC) Army Evaluation Center, views posters of King on display in the Myer Auditorium lobby.

(Below) Darcel Thomas, of Headquarters and Headquarters Company APG Garrison, sings "We've Come This Far By Faith," a Gospel hymn about overcoming adversity.

Photos by Rachel Ponder



Where to go for weather updates 2016



Station	Frequency	Location
WAMD	AM 970	Harford
WBAL	AM 1090	Baltimore
WCAO	AM 600	Baltimore
WDEL	AM 1150	Wilmington, Del.
WGLD/ESPN	AM 1440	Red Lion, Pa.
WINK	FM 103.3	York, Pa.
WIYY	FM 97.9	Baltimore
WJZ-FM	FM 105.7	Baltimore
WJZ-AM	AM 1300	Baltimore
WLIF	FM 101.9	Baltimore
WPOC	FM 93.1	Baltimore
WQSR	FM 102.7	Baltimore
WROZ	FM 101.3	Lancaster, Pa.

Other helpful websites include:

Maryland Emergency Management Agency <http://mema.maryland.gov>

Pennsylvania Emergency Management Agency <http://www.pema.state.pa.us>

Delaware Emergency Management Agency <http://dema.delaware.gov/>

Harford County Emergency Management <http://harfordpublicsafety.org>

Cecil County Department of Emergency Services <http://www.ccdes/>

Station	Frequency	Location
WSBA	AM 910	York, Pa.
WSOX	FM 96.1	Red Lion, Pa.
WSTW	FM 93.7	Wilmington, Del.
WXCX	FM 103.7	Havre de Grace
WZFT	FM 104.3	Baltimore
WBAL-TV	Channel 11 www.wbalte.com	Baltimore
WMAR-TV	Channel 2 www.abc2news.com	Baltimore
WBFF-TV	Channel 45 www.fox45baltimore.com	Baltimore
WJZ-TV	Channel 13 http://baltimore.cbslocal.com/	Baltimore
Harford Cable Network	21-Comcast/31-Verizon www.harfordcountymd.gov/hcn/	Harford County
Fox 43	http://fox43.com/	York, Pa.
Facebook	http://www.facebook.com/APGMd	
Twitter	http://twitter.com/#!/USAGAPG	
Telephone	410-278-SNOW (7669)	

Visit the APG Facebook page at www.facebook.com/APGMd for the latest updates.